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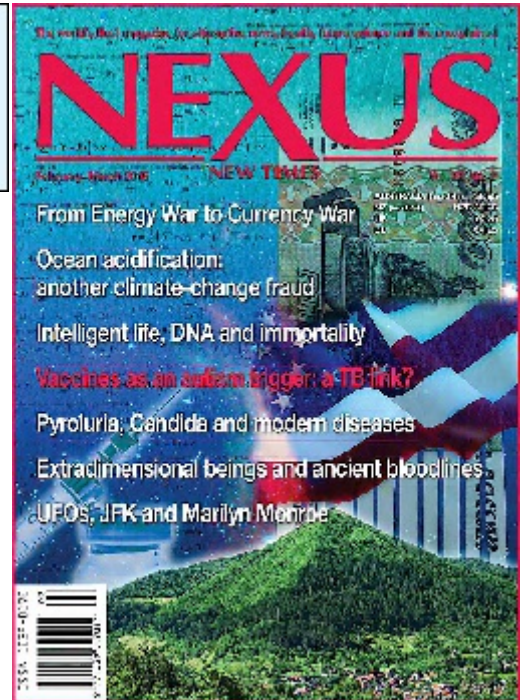
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Editorial

This editorial is in response to the many enquiries we have received regarding this question: "What does NEXUS think of the Muslim situation?" In my assessment, there are three issues to consider when addressing the rise of both Islam and extreme Islam.

1. Population and fertility rates. A race or culture needs a fertility rate of *more than two* babies per family just to survive, let alone grow. Currently nearly *all* "western culture" countries have birthrates *well below* 2.0. This means that, regardless of Islam, their populations are going backwards. Further, every nation needs a growing population to support its taxation base. If the tax-base income of a nation starts dropping, all hell breaks loose. So nations are *forced* to import people just to keep their national economies afloat.

2. Who is actively funding (creating) extreme versions of Islam? Most Muslims are inherently peaceful and thus don't receive much mainstream news coverage. However, the most extreme forms of Islam, including Wahhabism, have *massive* funding behind them. Qatar, the United Arab Emirates and Saudi Arabia actively fund, train and promote this extreme version of Islam. They pour *billions* of dollars into mosques that preach *their* form of extremism. They fund and train the "preachers" as well as those who become suicide bombers. *They*, along with their allies in the intelligence communities of the UK, USA, France and Israel, created ISIS and Al Qaeda specifically to conduct extreme acts to put on TV, so that we in the West support the USA in its resource wars.

3. Islam is one of only two religions which allows religious laws to override "local" laws. This is probably the most significant issue of all. Both Judaism and Islam have religious laws which dictate *lots* about how to live as well as how to behave. Some of these laws permit actions and behaviours considered illegal or immoral in most western nations' laws.

I cannot stress enough how the vast majority of Christians, Jews and Muslims simply want a peaceful, harmonious world. Most of these people use religion as a guideline to create peace and harmony. But *all* religions have insane and extreme verses in their respective "holy" texts which help justify *any* of them to conduct extremist acts. It is these extreme verses which they focus on to brainwash their followers. Those who want war and conflict *seek out* and nurture the extreme nut-job preachers and give them money, build them mosques and put them on TV. In other words, this extremism is *created* for media purposes, yet the extremists are a tiny minority of any religion.

If you live in a western country, you should be asking your respective governments why they particularly allow Saudi Arabian-funded Wahhabism (extremist Islam) to take root amongst their nations. In Australia, our governments literally fall over themselves to allow schools and mosques for this terror-linked branch of Islam. It is the same in the UK and Europe.

Islam *will* prevail, simply because most of you reading this did *not* have a 3-4-child family, whereas Muslim families are having 6-8+ children per family. What *type* of Islam prevails will depend on how *you* react to the continual

barrage of bullshit and manufactured terror incidents that fill the mainstream media. You have the choice to buy into the fear and hate, which will be based on your ignorance of the facts, or to stop spreading the viral emails of hate and cherry-picked, distorted "facts" about Muslims and Islam. Choose wisely.

Duncan

Letters to the Editor ...

Censoring the News

Dear Editor: I wish to draw your editorial attention to two items in the "Project Censored's Top 25 News Stories" article published in the current issue (Dec 2014-Jan 2015, vol. 22, no. 1).

Item 21, "Questioning the Charter School Hype", paints a negative picture of charter schools, mentioning subjecting students to "padded cells, public shaming...poor instruction", etc.

Item 24, "Restorative Justice Turns Violent Schools Around", details the wondrous transformation of a particular public school, after it was taken over by an organisation called American Paradigm Schools, via a "humanising" program and an Alternatives to Violence Project. The result after a year has been a 90 per cent drop in "serious incidents".

Omitted from the latter item is the fact that American Paradigm Schools is a charter school organisation.

I'm dismayed by the omission of this relevant fact. The opinion of the reader is manipulated here—exactly what NEXUS stands against.

J. J., New Zealand

Questioning Mind Control

Hi Duncan: Elana Freeland's article ["Directed Energy Weapons for Political Control", 21/06] was both fascinating and creepy. I have no doubt that the military-industrial complex is experimenting in this field.

But I guess the same question always comes to my mind when the topic of mind control technology comes up: if they really have reached this level of sophistication, how is it that the author of the article was able to write it freely? How is NEXUS Magazine able to publish all the material it has published? Indeed, how are we able to discuss it at this very moment? Isn't it game up, checkmate? After all, we would all be considered a nuisance or threat.

Clearly, based on what Elana herself described, efforts at legislating against and banning this type of technology won't work. After all, how do you prove that someone is using it? Maybe we need to start looking at personal defences, if at all possible. Are we likely to see a future article in this vein of thought?

Cheers,

Anthony Z., Australia

Faked Moon Photographs

Dear Duncan: I have some evidence that Marcus Allen [NEXUS UK Office] can use during his debate. He was in a video that was attempting to refute the fact that the photograph of the astronaut standing alone on the Moon shouldn't be so bright. It was a BBC documentary. Marcus was saying that the front of the astronaut should be shadowed, since the Sun was behind him.

So the refuters set up a stage and put a spotlight behind the astronaut and, lo and behold, he was fully lit due to the surface light. But what escaped everyone is that while they filmed it with a shoulder-mount camera, the horizon on the fake astronaut was up to his shoulders.

This means that the original picture must have been taken from a higher location because the horizon in the original photograph was up to the astronaut's head.

Joshua S., USA

9/11 Discrepancies

Dear Sir: This is a respectful question from the Australian people to President Obama through NEXUS.

We are unable to understand how and why on 9/11 the third smaller tower collapsed in exactly the same manner as the other two when it had no aircraft strike, and how and why there was molten metal in the basement of the collapsed towers for several days. Could the President explain how this occurred?

Here is some interesting factual information for consideration:

- 1538 °C (2800 °F): the melting point of iron;
- 1510 °C (2750 °F): the melting point of typical structural steel;
- 825 °C (1517 °F): the maximum temperature of hydrocarbon fires burning in the atmosphere.

Sincerely,

G. J. M., Australia

Biased Editorial Opinion

Dear Mr Roads: I have noticed over the last several years that more and more you are pushing your opinion and views in your Editorial and comments in Letters to the Editor.

It's your magazine, I know, but I'm sure Goebbels certainly would drool if he had the tools you have, i.e., the Internet.

Please try to keep it fair and unbiased.

Regards,

Robert H. (long-time reader and subscriber)

Port Arthur Massacre Recap

Dear NEXUS: Could you please do a revised article on the "Was Martin Bryant Framed?" series (published by NEXUS in 13/04-06).

It is so important that the truth be heard and this innocent man be set free.

D. P., Australia

Maralinga Madness

Hello! I have just picked up the recently published book *Maralinga*, written by Frank Walker. Every Australian needs to read this book.

I thought I knew it all, having read about it in the 1980s, but nothing prepared me for what was done: 12 nuclear bombs, hundreds of dead babies' bones taken over the next 25 years all over Australia to see the extent of the radiation. I felt sick knowing that this was done to our country and covered up by every Prime Minister from Menzies down—all of them!

About Maralinga, during the Menzies era, with the blessing of the Prime Minister, the British government exploded 12 nuclear bombs on Australian soil. RAAF pilots were ordered to fly into nuclear mushroom clouds; soldiers were told to walk into radioactive ground zero; sailors were made to retrieve highly contaminated debris— none of them aware of the dangers they faced.

But the betrayal didn't end with these servicemen. Secret monitoring stations were set up around the country to measure radiation levels. A clandestine, decades-long project stole bones from dead babies to see how much fallout had contaminated their bodies; their grieving parents were never told.

With exclusive access to hundreds of nuclear veterans, Frank Walker has written a startling expose of the callous betrayal of men who served their country. *Maralinga* is an impassioned plea for justice for the nuclear veterans who have been betrayed by politicians from Menzies right up to today. Veterans who followed orders and walked into British nuclear bomb clouds have found they don't have the same rights as other veterans because they didn't serve in wartime and didn't serve overseas.

I have written to the author at his website and I urge others to do the same. Get the book. If you can't afford it,

ask your library if they will stock it. It's published by Hachette Australia.

To think of all the Australian people that must have been killed either quickly or over the generations because of our government's betrayal of its own people is hard, knowing what a trusting mob we once were. Their deaths and suffering have never received any justice so far, and we will never know how many thousands were affected.

This is Frank Walker's website, if after reading his book or finding out about his research you want to thank him or comment: www.frankwalker.com.au.

Best wishes,

Therese M., Australia

Demise of Dr Fred Bell

Dear Duncan: I have wondered why you have never questioned or run an article about the death of Dr Fred Bell. Or did I miss it? A couple of years ago, he was featured on the TV show *Conspiracy Theory with Jesse Ventura*, and during the making of that particular episode he apparently dropped dead of a heart attack while they were exploring the subject of "death rays". I understand that Dr Bell's book *Rays of Truth - Crystals of Light* is hard to obtain or very expensive.

I think I've heard enough for a while on the subjects of pyramid speculation, disease and various inventions. We are supposedly on the brink of a new understanding or frontier of consciousness. Is anything happening with the electronic voice phenomenon (EVP)? I'm hoping that subjects along this line will be showing up soon in NEXUS.

Yours respectfully,

Jo D., California, USA

[Dear Jo: I first learned of Dr Fred Bell some 25 or more years ago, and I then read his book *The Promise*. It was quite a startling book indeed, with some incredible assertions and experiences that would have involved scores of witnesses to the events that he claimed happened.

Two or three years later, I was discussing the idea of NEXUS coming into the USA via the publishers of *Connecting Link*, a popular New Age magazine back then. The publisher, Barrie Konicov, roared with laughter at my mention of Dr Fred Bell's book. When I asked why, he told me that he, Fred and some others had sat around one night drinking and smoking, and *made it all up!* I then did some research into the claimed events in that book and found that it was, indeed, all total rubbish! I made myself very unpopular by not going along with the bullshit, by not publishing articles from or about Fred, and by not reviewing his book. Bell *never* told people that his book was fiction.

The more I looked into Bell's past, the less I could find to back up any of his claims that he had worked with the greatest scientists of our time on projects including the Philadelphia Experiment, etc. Bell was a con man and a fraudster. None of his devices changed the space-time continuum or facilitated contact with ETs.

It is true that Bell died of a heart attack in September 2011, but this was nearly two days *after* he was interviewed for *Conspiracy Theory*. Still, it makes me wonder how much fact-checking this TV show actually does on its guests.

So, why haven't I publicly outed Bell as a fraudster in NEXUS? Well, I don't believe in wasting space on petty con artists when there is much better info out there needing attention.

I did, however, deviate from this policy on the matter of Sai Baba, who *was* a paedophile and rapist of boys and young men, and who *was* another con artist. To this day, many ego-bound New Agers refuse to believe the horrid truth about Sai Baba because they can't stand to be "wrong". There are lots of other con artists like him, especially in America— where it seems that people are happy enough with New Age buzzwords not to bother ever actually checking things.

As for EVP—which is basically putting a tape recorder on "record", going away and then coming back to listen to "spirit voices"— I'm still waiting for any clear, discernible evidence of cohesive communication via this method. Ed.]



RESEARCH SHOWS GUT MICROBES' LINK WITH THE BRAIN

Collectively called the *microbiome*, the trillions of microbes that inhabit the human body mostly live in the gut and intestines where they help us to digest food, synthesise vitamins and ward off infection.

Now, recent research on the microbiome has shown that its influence extends far beyond the gut, all the way to the brain. Over the past 10 years, studies have linked the gut microbiome to a range of complex behaviours—such as mood and emotion, and appetite and satiety.

Not only does the gut microbiome appear to help maintain brain function but it may also influence the risk of psychiatric and neurological disorders, including anxiety, depression and autism.

One surprising way in which the microbiome influences the brain is during development.

"There are key developmental windows when the brain is more vulnerable because it's setting itself up to respond to the world around it," said Tracy Bale, Professor of Neuroscience at the School of Veterinary Medicine at the University of Pennsylvania. "So, if mom's microbial ecosystem changes—due to infection, stress or diet, for example—her newborn's gut microbiome will change too, and that can have a lifetime effect."

Other researchers are exploring whether the microbiome plays a role in neurodegenerative diseases such as Alzheimer's and Parkinson's. (Source: *MedicalXpress.com*, 9 January 2015, <http://tinyurl.com/kaa2j36>.)

SCIENCE SOUNDS THE ALARM ON SUGAR AS A SOURCE OF DISEASE

A team of scientists at the University of California in San Francisco has launched an initiative to bring information on food and drink and added sugar to the public by reviewing more than 8,000 scientific papers that show a strong link between the consumption of added sugar and chronic diseases.

The common belief until now was that sugar just makes us fat, but it's become clear through research that it's making us sick. For example, there's the rise in fatty-liver disease, the emergence of type 2 diabetes as an epidemic in children and the dramatic increase in metabolic disorders.

Dr Laura Schmidt, a UCSF School of Medicine professor and lead investigator with the project SugarScience.org, said the idea is to make the findings comprehensible and clear to everyone. Added sugars, Schmidt said, are sugars that don't occur naturally in foods. They are found in 74 per cent of all packaged foods, have 61 names and often are difficult to decipher on food labels.

Although the US Food and Drug Administration requires food companies to list ingredients on packaging, the suggested daily values of natural and added sugars can't be found.

Robert Lustig, MD, a member of the SugarScience team, said that more than half of the US population is sick with metabolic syndrome—a group of risk factors for chronic diseases such as heart disease, diabetes and liver disease that are directly related to the excessive consumption of added sugars in the western diet.

(Source: *MedicalXpress.com*, 2 January 2015, <http://tinyurl.com/npr4lcm>.)

MIND OVER MATTER: THE BRAIN ALONE CAN TONE MUSCLE

New research suggests that muscles respond to simple thoughts of exercise. Just imagining exercise can trick the muscles into delaying atrophy and even getting stronger. It's further proof that brain and body, which evolved together, are more entwined than separate.

To demonstrate the power of the brain, researchers at Ohio University wrapped a single wrist of two sets of study participants in a cast, immobilising their muscles for four weeks. One set was instructed to sit still and intensely imagine exercising for 11 minutes, five days a week. More than just casually daydream about going to the gym, participants were instructed to devote all of their mental energy towards imagining flexing their arm muscles. The other set of study participants wasn't given any specific instructions.

At the end of the four weeks, the mental-exercisers were two times stronger than the others.

Researchers also used magnetic imaging to isolate the area of the brain responsible for the specific arm muscles. Participants who imagined exercise not only had stronger arms but also a stronger brain; their mental exercises created stronger neuromuscular pathways.

Previous studies have shown that mental exercise can actually make muscles stronger (as opposed to simply preventing or slowing atrophy), and that thinking about exercise activates the same areas of the brain as real exercise.

Of course, researchers aren't suggesting forgoing exercise; nothing works quite as well at encouraging both brain and body health as the real thing. (The study was published in the *Journal of Neurophysiology* [1 October 2014].) (Source: *Breitbart.com*, 24 December 2014, <http://tinyurl.com/qfom744>.)

SMART GRID CONTROL WILL INVADE OUR PRIVACY

Bloomberg News began its recent piece [17 December 2014] on smart grids with a slightly different line: "Warren Buffett wants to tell you the best time to wash your clothes."

But the article continues with not just Buffett wanting to give you a friendly reminder of a more cost-effective time of day to use energy.

In conjunction with Siemens AG, Buffett's UK Northern Powergrid Holdings Company is testing a new smart grid system that will literally be able to take control of when homeowners can use their appliances. They are testing "a so-called smart grid that has the ability to control when consumer appliances will be used in the home". Bloomberg is using the term "behavioral shift".

Hundreds of millions of smart meters have been installed all over the globe at this point. Testing of these kinds of systems is going on right now in the USA, UK, Australia and France, among other countries.

Some smart grid projects are using smart meter systems that send signals from every outlet in a home every 15 seconds, essentially giving anyone sitting at the grid's control hub a complete view of every move involving energy inside a home.

Flip on a light? Take a shower? Make a cup of coffee? Flush the toilet? Well, under these smart grid systems, you are also making data and someone, somewhere, is going to know about it.

If you use more electricity than your neighbours, well, then, you are also a statistical outlier, something that has given police in the past probable cause to question people randomly on the basis that they might be growing drugs in their home due their increased electricity usage.

They do have talking thermostats now, too. They're supposed to be all trendy and cool.

Smart grid technology is one more rung on the ladder to a complete technocratic slave grid where austerity and

artificial scarcity rule the day.

(On a side note, they want everyone on this system to "save resources" and the planet, etc.; but when someone tries to go off grid and be energy efficient on their own without a smart meter being fed to a giant database somewhere, this is illegal in some US states.)

(Source: *TheDailySheeple.com*, 8 January 2015, <http://tinyurl.com/qxlshjn>.)

EARTH IS BEING PROTECTED BY A MYSTERIOUS, INVISIBLE BARRIER

An invisible shield, some 7,200 miles (11,600 kilometres) above Earth, has been found blocking "killer electrons" from bombarding our planet. These electrons can whip around the planet at near-light speed and have been known to threaten astronauts, fry satellites and damage space systems.

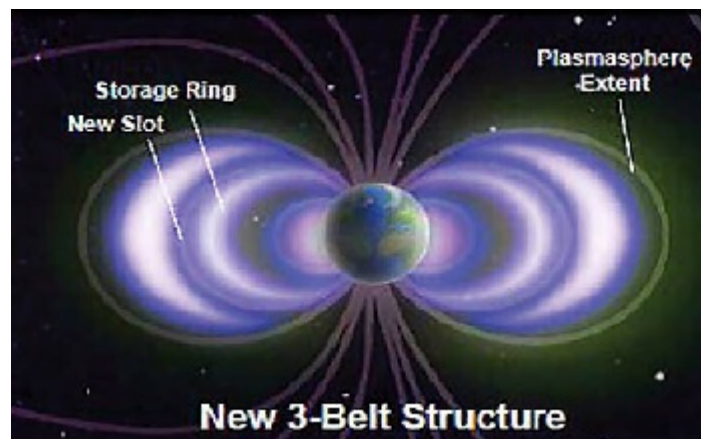
If these electrons hit Earth on a large scale, they could knock out power grids, radically changing the planet's climate and driving up rates of cancer. While scientists know that this mysterious shield exists, they are baffled as to how it formed and how exactly it works.

"Somewhat like the shields created by force fields on *Star Trek* that were used to repel alien weapons, we are seeing an invisible shield blocking these electrons," said Professor Daniel Baker from the University of Colorado, Boulder.

The shield was discovered in the Van Allen radiation belts, two doughnut-shaped rings above Earth that are filled with high-energy electrons and protons.

Held in place by Earth's magnetic field, the Van Allen radiation belts swell and shrink in response to incoming energy disturbances from the Sun. The belts were discovered in 1958 and are comprised of an inner and an outer belt extending up to 25,000 miles (40,000 kilometres) above the Earth's surface.

Last year, Professor Baker led a team that used the twin Van Allen Probes, launched in 2012, to discover a third, transient, "storage ring".



This ring is located between the inner and outer Van Allen radiation belts and seems to come and go with the intensity of space weather. This ring appears to block the ultrafast electrons from breaching the shield and moving deeper towards Earth's atmosphere.

"It's almost like these electrons are running into a glass wall in space," said Professor Baker. "It's an extremely puzzling phenomenon."

The team originally thought that the highly charged electrons, which are looping around the Earth at more than 100,000 miles per second, would slowly drift downwards into the upper atmosphere. But the impenetrable barrier seen by the twin Van Allen belt spacecraft stops the electrons before they get that far, said Professor Baker.

(Source: *FrontlineDesk.com*, 27 November 2014, <http://tinyurl.com/mjv4m8s>.)

ENLIST YOUR MICROBIOMES IN THE FIGHT AGAINST CANCER

The human body is occupied by trillions of microorganisms, acquired at birth and maintained throughout our lifetime. Though we are mostly oblivious to this microbiome, it forms an intimate and essential part of our being. It is involved in many vital biological processes such as nutrition, the immune system and even mental health. Evidence is now mounting that the microbiome plays a role in cancer, too.

In the past five years, a comprehensive catalogue of the microorganisms living on and in the different surfaces and cavities of our bodies has been created. This has revealed that the microbiome is a diverse community of more than 1,500 species, with the vast majority residing in the intestines.

In humans, the strongest evidence of the potential role of the microbiome in cancer comes from studies on colorectal cancer (CRC), the third commonest form of cancer in the US and that country's second leading cause of cancer deaths.

Recent research on people with CRC showed that their intestinal microbial communities become unbalanced. For example, compared with those of healthy people, the stools of people with CRC contain fewer of the bacterial groups Lachnospiraceae and *Roseburia* but an increased abundance of others such as *Enterococcus* and *Streptococcus*.

Why does it matter which types of microorganisms are present in the gastrointestinal tract?

Not only does the microbiome play a key role in our immune system, but it also produces 10 per cent of our energy and ferments dietary carbohydrates into a range of metabolites such as the short-chain fatty acids acetate, propionate and butyrate.

(Source: *NewScientist.com*, 28 October 2014, <http://tinyurl.com/lqchmav>.)

USA NOW HAS MORE PRISONS THAN COLLEGES

Fifteen years ago there were only five private prisons in the USA, with a population of 2,000 inmates. Ten years later there were over 100 private prisons, holding more than 62,000 inmates. Since then, that number has increased again.

The US national incarceration rate of 707 adults per every 100,000 residents is the highest in the world by a huge margin. There were 2.3 million prisoners in the USA as of the 2010 Census. Much of the discussion of prison populations centres around inmates in the 1,800 state and federal correctional facilities—but at any given time, hundreds of thousands more individuals are locked up in the nation's 3,200 local and county jails. To put these figures into context, the USA has more jails and prisons than colleges and universities. In many parts of America, particularly the South, there are more people living in prisons than on college campuses.

Statistics show that 97 per cent of federal inmates were convicted of non-violent crimes, and it is believed that more than half of the 623,000 inmates in municipal or county jails are innocent of the crimes they are accused of. Two-thirds of the one million state prisoners committed non-violent offences. Sixteen per cent of the country's 2.3 million prisoners suffer from mental illness.

For the tycoons who have invested in the private prison industry, it has been like finding a pot of gold. They don't have to worry about strikes or paying unemployment insurance, vacations or compensation time. All of their workers are full time, and never arrive late or are absent because of family problems. Moreover, if they don't like the pay of 25 cents an hour and refuse to work, they are locked up in isolation cells.

(Sources: *WashingtonPost.com*, 6 January 2015, <http://tinyurl.com/kfh4mbd>; *GlobalResearch.ca*, 31 March 2014, <http://tinyurl.com/a58utcd>.)

VITAMIN D: SYNCHRONISING OUR BODY CLOCKS

As well as keeping our bones strong, vitamin D—the hormone that our skin makes when exposed to ultraviolet rays—may also be helping to regulate our body clocks.

We all have a small group of "clock genes" which switch on and off during the day. As a result, the levels of the proteins they code for rise and fall over a 24-hour period.

Enforced routines such as night shift work can play havoc with our health—by increasing our risk for stroke, for example.

To find out whether a lack of vitamin D might be responsible, Sean-Patrick Scott and his colleagues at the Monterrey Institute of Technology and Higher Education, Mexico, looked at the behaviour of two clock genes in

human fat cells.

When the cells were immersed in blood serum, they acted as they would in the body: the clock genes' activity oscillated over a 24-hour period. Dosing the cells with vitamin D instead produced the same effect. No such effect was seen in cells placed inside a nutrient broth.

"Vitamin D synchronises the cells," says Scott.

(Source: *NewScientist.com*, 2 January 2015, <http://tinyurl.com/nmm9o4u>.)

GOOGLE, NASA RIDE D-WAVE TO A QUANTUM FUTURE

They could be the most powerful computers in the world, so perhaps it's no surprise that the biggest Internet company on the planet is testing one out.

Last year, Google purchased a quantum computer from D-Wave Systems in British Columbia, Canada, currently the only firm claiming to sell chips powered by exotic physics. In theory, quantum computers offer a huge advantage over ordinary PCs. Regular computers code information in binary bits that are either on or off— 0 or 1. But a quantum "qubit" can be both at the same time.



This could let quantum machines crunch through certain problems, like searching a database, at blistering speeds even compared to a supercomputer. Such zippy calculation is an attraction for companies like Google that deal with large volumes of data.

Google certainly isn't alone in its quantum aspirations: its D-Wave Two machine is housed at NASA's Ames Research Center in California and maintained by the Universities Space Research Association.

(Source: *NewScientist.com*, 31 December 2014, <http://tinyurl.com/qd357qm>.)

ARE OCEAN ACIDIFICATION CLIMATE-CHANGE POLICIES BASED ON "pHRAUD"?

Ocean acidification (OA) is receiving growing attention. While someone who doesn't follow climate-change science might think OA is a stomach condition resulting from eating bad seafood, OA is claimed to be a phenomenon that will destroy ocean life—all due to mankind's use of fossil fuels. It is a foundational theory upon which the global warming-climate change narrative is built.

The science and engineering website Quest recently posted: "Since the Industrial Revolution in the late 1700s, we have been mining and burning coal, oil and natural gas for energy and transportation. These processes release carbon dioxide (CO₂) into the atmosphere. It is well established that the rising level of CO₂ in our atmosphere is a major cause of global warming. However, the increase in CO₂ is also causing changes to the chemistry of the ocean. The ocean absorbs some of the excess atmospheric CO₂, which causes what scientists call ocean acidification. And ocean acidification could have major impacts on marine life."

Within the Quest text is a link to a chart (see below) by Dr Richard A. Feely, who is a senior scientist with the Pacific Marine Environmental Laboratory (PMEL), part of the National Oceanic and Atmospheric Administration (NOAA). Feely's climate-crisis views are widely used to support the narrative.

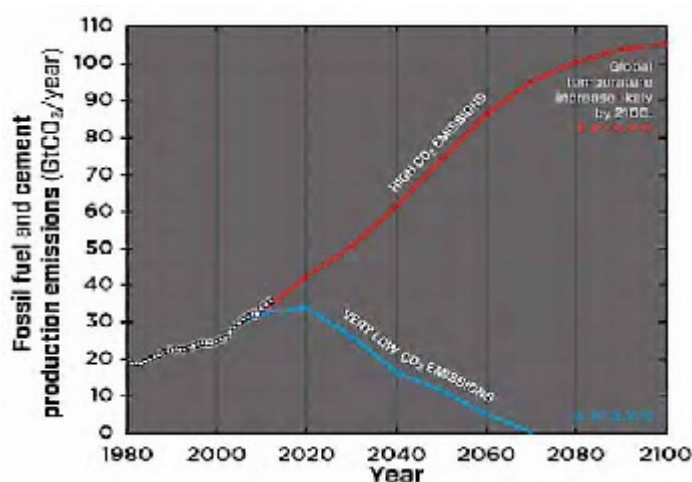
Feely's four-page report "Carbon Dioxide and Our Ocean Legacy" (2006), available at the NOAA website, contains a similar chart. This chart, titled "Historical & Projected pH & Dissolved CO₂", begins at 1850. Feely testified before Congress in 2010, using the same data that show a decline in seawater pH (making it more acidic) that appears to coincide with increasing atmospheric carbon dioxide.

In 2010, Feely received the \$100,000 cash prize from the Heinz Family Foundation awards (established by Teresa Heinz, wife of US Secretary of State John Kerry). The Heinz Awards site touts Feely's work: "(O)cean acidity is now considered global warming's 'evil twin', thanks in large measure to Dr Feely's seminal research on the changing ocean chemistry and its impact on marine ecosystems."

The December 2014 edition of the scientific journal *Nature Climate Change* features commentary titled "Lessons learned from ocean acidification research".

However, an inquisitive graduate student presented me with a very different "lesson" on ocean acidification research. Mike Wallace is an hydrologist with nearly 30 years' experience and is now working on his PhD in nanogeosciences at the University of New Mexico. In the course of his studies, he uncovered a startling data omission that he told me "eclipses even the so-called Climategate event".

Feely's work is based on computer models that don't line up with real-world data—which Feely acknowledged in email communications with Wallace (which I have read). And, as Wallace determined, there is real-world data. Feely and another co-author, Dr Christopher L. Sabine, PMEL Director, omitted 80 years of data which incorporate more than two million records of ocean pH levels.



Feely's chart, first mentioned, begins in 1988—which is surprising, as instrumental ocean pH data has been measured for more than 100 years since the invention of the glass electrode pH (GEPH) meter.

As an hydrologist, Wallace was aware of the GEPH's history and found it odd that the Feely-Sabine work omitted it. He went to the source. The NOAA paper with the chart beginning in 1850 lists Dave Bard, with Pew Charitable Trust, as the contact.

Wallace sent Bard an email: "I'm looking in fact for the source references for the red curve in their plot which was labeled Historical & Projected pH & Dissolved CO₂'. This plot is at the top of the second page. It covers the period of my interest."

Bard responded and suggested that Wallace communicate with Feely and Sabine—which he did over a period of several months. Wallace asked again for the "time series data (*not modeling*) of ocean pH for 20th century".

Sabine responded by saying that it was inappropriate for Wallace to question their "motives or quality of our science", adding that if he continued in this manner, he would "not last long" in his career. He then included a few links to websites that Wallace, after spending hours reviewing them, called "blind alleys". Sabine concluded the email with: "I hope you will refrain from contacting me again." But communications did continue for several more exchanges.

In an effort to obtain access to the records that Feely-Sabine didn't want to provide, Wallace filed a Freedom of Information Act (FOIA) request.

In a 25 May 2013 email, Wallace offered a statement, which he asked Feely-Sabine to confirm:

"...it is possible that Dr Sabine was partially responsive to my request. That could only be possible, however, if only

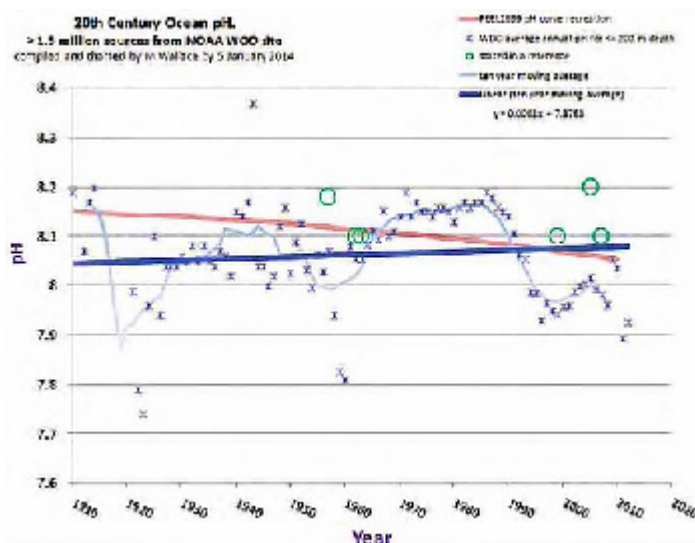
data from 1989 and later was used to develop the 20th century portion of the subject curve."

"...it's possible that Dr Feely also was partially responsive to my request. Yet again, this could not be possible unless the measurement data used to define 20th century ocean pH for their curve came exclusively from 1989 and later (thereby omitting 80 previous years of ocean pH 20th century measurement data, which is the very data I'm hoping to find)."

Sabine wrote: "Your statements in italics are essentially correct." He added: "The rest of the curve you are trying to reproduce is from a modeling study that Dr Feely has already provided and referenced in the publication."

In his last email exchange, Wallace offered to close out the FOIA, because the email string "clarified that your subject paper (and especially the History' segment of the associated time series pH curve) did not rely upon either data or other contemporary representations for global ocean pH over the period of time between the first decade of 1900 (when the pH metric was first devised, and ocean pH values likely were first instrumentally measured and recorded) through and up to just before 1988."

Wallace received no reply, but the FOIA request was closed in July 2013 with a "No document found" response.



Interestingly, in this same general time frame, NOAA reissued its World Ocean Database. Wallace was then able to extract the instrumental records he sought and turned the GEPH data into a meaningful time series chart which reveals that the oceans are not acidifying. (For another day, Wallace found that the levels coincide with the Pacific Decadal Oscillation.) As Wallace emphasised, "there is no global acidification trend". "In whose professional world," Wallace asked, "is it acceptable to omit the majority of the data and also to not disclose the omission to any other soul or Congressional body?"

Wallace met with staffers for both of his senators, Martin Heinrich and Tom Udall (both D-NM), and shared his findings with them but got no response. Heinrich and Udall both claim adherence to the climate-crisis narrative.

These taxpayer-funded scientists are leaders of the OA narrative. They participate in well-funded OA research programs and sit on advisory councils, such as the Wendy Schmidt Ocean Health XPRIZE that offers a \$2 million prize related to ocean pH measurements.

"It all seems authentic and quite legitimate." Yet their work is based on, as Wallace calls it, "a new history of ocean pH"—one that "is significantly different from the history suggested by actual measurements and other sources of peer-review literature".

Wallace concluded: "Ocean acidification may seem like a minor issue to some, but, besides being wrong, it is a crucial leg to the entire narrative of human-influenced climate change'. By urging our leaders in science and policy to finally disclose and correct these omissions, you will be helping to bring honesty, transparency, and accountability back where it is most sorely needed."

(Source: by Marita Noon, cfact.org, 22 December 2014, <http://tinyurl.com/l52zj9>)

THE US "FRACKING BOOM" IS A FALLACY

In his 2012 State of the Union address, President Obama said: "We have a supply of natural gas that can last America nearly 100 years... Experts believe this will support more than 600,000 jobs by the end of the decade."

Obama was talking about shale gas—natural gas trapped in shale formations—obtained by "hydraulic fracturing" or "fracking", a process used for decades to produce oil and methane gas from coal beds but relatively new to the shale gas production that inaugurated the recent "fracking boom".

Fracking is highly controversial due to its impacts including chemical contamination of ground water, depletion of fresh water, air emissions (especially of methane, a potent greenhouse gas), potential triggering of earthquakes, noise and surface pollution, and risks to health and the environment.

The Chief Economist of the US Energy Information Administration (EIA) said in his 2013 annual outlook: "By around 2020, the United States is projected to become the largest global oil producer. The result is a continued fall in US oil imports, to the extent that North America becomes a net (oil) exporter around 2030."

Over the next two decades, hundreds of billions will be invested in new power plants run on natural gas, and billions more on constructing export facilities for shipping US liquefied natural gas to Europe, Asia and South America. US gas production will expand for decades, "all the way out to 2040" according to the official EIA forecasts.

These forecasts are based on coarse-grained studies of major shale formations. When researchers began analysing those formations in greater detail (at a resolution 20 times finer), they came up with much more conservative forecasts, which led to a news feature titled "Natural gas: The fracking fallacy" in the journal *Nature* (4 December 2014).

The reason is that the major shale formations have relatively few "sweet spots" where gas extraction will be profitable. The EIA's model so far assumes that future wells will be at least as productive as past wells in the same country, thereby leading to forecasts that are far too optimistic.

The results are "bad news", says Tad Patzek, head of the Department of Petroleum and Geosystems Engineering at the University of Texas at Austin and a member of the research team conducting the detailed analyses. "Were setting ourselves up for a major fiasco."

The findings may also impact on nations, like the UK, which hope to exploit their own shale gas reserves, says Professor Paul Stevens, an economist with the London-based think-tank Chatham House.

Much of the US shale gas boom is credited to the Marcellus Shale Formation, where companies have sunk more than 8,000 wells in several years beneath thickly forested rolling hills and are adding about 100 every month. The Marcellus now supplies 385 million cubic metres of gas per day, more than enough for half the gas currently burned in US power plants. Three other shale plays supply a substantial portion of the rest: the Barnett, the Fayetteville and the Haynesville. Together they have sunk more than 30,000 wells, which produce two-thirds of current US shale gas output.



According to the EIA, production from the big four plays will continue rising quickly until 2020 then plateau for at least 20 years. Other shale gas plays would keep the boom going until 2040. Petroleum industry analysts create their own shale gas forecasts, which are close to those of the EIA. However, the details behind their forecasts are rarely released.

To provide rigorous and transparent forecasts, a team of a dozen geoscientists, petroleum engineers and

economists at the University of Texas, Austin, spent more than three years on a series of systematic studies. If natural gas prices were to follow the same trajectory used by the EIA in its 2014 annual report, the Texas team forecast production from the big four plays would peak in 2020 and decline from then on. By 2030, those plays would be producing only about half as much as forecast by the EIA.

(Source: *ISIS Report*, 5 January 2015, <http://tinyurl.com/l7kp9z2>; see articles on fracking in NEXUS 18/05 and 20/04.)

GOLD ORIGAMI EXERTS STRANGE POWER OVER LIGHT

Sheets of gold just one nanoparticle thick have been folded into tiny origami. Dubbed *plasmene*, the material has some of the weirdest optical properties.

Plasmonic materials, such as gold and silver, capture light and transmit it along their surfaces as waves of electrons called *plasmons*. They can squeeze light into spaces smaller than the laws of physics normally allow. But to be useful, they need to be manipulated into the right shape—and building nanoscale shapes out of gold or silver has so far been impossible.

Wenlong Cheng at Monash University in Melbourne named the thin material after the famous carbon-based *graphene*.

(Source: *NewScientist.com*, 30 October 2014, <http://tinyurl.com/kff292r>.)

READY FOR BIOHACKING?

Welcome to the dicey world of biohacking, where hobbyists try to improve their own bodies.

Smart watches will be big next year [2015], and as personal devices become more intimate there will be increasing interest in tracking personal biometrics and health. But why just monitor your body when you could modify it for the better?

Biohacking is still a niche field, but the possibilities are growing. The most successful innovations so far are small magnets that can be implanted in your fingertips, allowing you to feel electric fields.

Also popular are RFID chips which can be implanted under the skin and used as remote keys, wallets and data storage devices. More esoteric experiments include internal compasses that vibrate when you face north, chlorophyll-derived eye drops that boost night vision, diets that trigger near-infrared vision, and tuning hearing to Wi-Fi fields.

(Source: *NewScientist.com*, 16 December 2014, <http://tinyurl.com/kv7ggwc>.)

DARPA'S AUTONOMOUS MICRODRONES DESIGNED TO PATROL INSIDE HOUSES

As drone expert P. W. Singer said: "At this point, it doesn't really matter if you are against the technology, because it's coming." According to Singer: "The miniaturization of drones is where it really gets interesting. You can use these things anywhere, put them anyplace, and the target will never even know they're being watched."

According to the US Air Force, micro air vehicles (MAVs), combined with the ability to harvest energy, will enable insect-sized drone swarms to be dropped from military aircraft to stay aloft for a prolonged amount of time, offering a host of functions including assassination.

The US Defense Advanced Research Projects Agency (DARPA) has announced a new wave of these microdrones under the Fast Lightweight Autonomy (FLA) program. As the name indicates, ideally humans would be removed completely from the control process. For now, DARPA clearly states "overseas" as the theatre of operation, but it doesn't take much imagination to see how these microdrones could be applied in the US, especially amid an increasingly tense urban environment in the wake of confrontations with domestic police. And, as always, the tantalising application in disaster relief paves the way for easy introduction.

DARPA aims to give small unmanned aerial vehicles advanced perception and autonomy in order to search buildings or other cluttered environments rapidly without teleoperation.

Military teams patrolling dangerous urban environments overseas and rescue teams responding to disasters such as earthquakes or floods currently rely on remotely piloted unmanned aerial vehicles [UAVs] to provide a bird's-eye

view of the situation and spot threats that can't be seen from the ground. But to know what's going on inside an unstable building or a threatening indoor space often requires physical entry, which can put troops or civilian response teams in danger.

To address these challenges, DARPA issued a Broad Agency Announcement solicitation for the Fast Lightweight Autonomy (FLA) program. FLA focuses on creating a new class of algorithms to enable small unmanned aerial vehicles to navigate a labyrinth of rooms, stairways and corridors or other obstacle-filled environments quickly without a remote pilot. The program aims to develop and demonstrate autonomous UAVs small enough to fit through an open window and able to fly at speeds up to 20 metres per second (45 mph)—while navigating within complex indoor spaces independently of communication with outside operators or sensors and without reliance on GPS [Global Positioning System] waypoints.

If successful, the algorithms developed in the program could enhance unmanned system capabilities by reducing the amount of processing power, communications and human intervention needed for low-level tasks, such as navigation around obstacles in a cluttered environment.

The initial focus is on UAVs, but advances made through the FLA program could potentially be applied to ground, marine and underwater systems, which could be especially useful in GPS-degraded or denied environments.

"Urban and disaster relief operations would be obvious key beneficiaries, but applications for this technology could extend to a wide variety of missions using small and large unmanned systems linked together with manned platforms as a system of systems," said Stefanie Tompkins, Director of DARPA's Defense Sciences Office.

(Sources: Nicholas West, TechSwarm.com, 23 December 2014, <http://tinyurl.com/lccujjl>; DARPA.mil, 22 December 2014, <http://tinyurl.com/lmw7yj>.)

From Energy War to Currency War

Washington neoconservatives, not content with just imposing economic sanctions on the Russian Federation, are targeting the ruble for devaluation and the economy for inflation, but Moscow has other strategies to maintain its economic and geopolitical power.

by Mahdi Darius Nazemroaya
Global Research, Canada © 26 December 2014
Website: <http://www.globalresearch.ca>
Web page: <http://tinyurl.com/oh7ypo4>

America's Attack on the Russian Ruble

A multi-spectrum war is being waged against Moscow by Washington. If there are any doubts about this, they should be put to rest. Geopolitics, science and technology, speculation, financial markets, information streams, large business conglomerates, intelligentsia, mass communication, social media, the Internet, popular culture, news networks, international institutions, sanctions, audiences, public opinion, nationalism, different governmental bodies and agencies, identity politics, proxy wars, diplomacy, countervailing international alliances, major business agreements, non-governmental organisations (NGOs), human rights, prestige, military personnel, capital and psychological tactics are all involved in this multi-spectrum war. On a daily basis, this struggle can be seen playing out on the airwaves, in the war theatres in Ukraine and the Middle East, via the statements and accusations of diplomats, and in the economic sphere.

Additionally, the debates and questions on whether a new cold war—a post-Cold War cold war—has emerged or if the Cold War never ended should be put to rest. The mentality of the Cold War never died in the Washington Beltway. From the perspective of Russian officials, it is clear that the US never put down its war mace and that it continued the offensive. The dissolution of the Warsaw Pact, defeating the Soviets and the Eastern Bloc, and seeing the Soviet Union dismantled into 15 republics was not enough for the Cold War warriors in the US. The newly emergent Russian Federation had to be placated in its views.

Petropolitics has been a major feature of this multi-spectrum war, too.¹ Not only have energy prices been a factor in this struggle, but financial markets and national currencies as well. The manipulated decline in the price of energy, which has been driven by the flooding of the global market with oil, is now being augmented by a siege on the value of the Russian ruble. This is part of what appears to be a deliberate, two-pronged attack on the Russian Federation that seeks to cut Russia's revenues through market manipulation via economic sanctions and price drops. It is what you would call a "double whammy". While sanctions have been imposed on the Russian economy by the US and its allies, including Australia, Canada, the European Union and Japan, offensives on Russia's main source of revenue—energy—and its national currency have taken place.

Currency Warfare and Inflation

The price of the Russian ruble began to drop in December 2014 as a consequence of the economic siege on the Russian Federation, the drop in global energy prices and speculation.

"Judging by the situation in the country, we are in the midst of a deep currency crisis, one that even Central Bank employees say they could not have foreseen in their worst nightmares", Interfax's Vyacheslav Terekhov commented on the currency crisis while talking to Russia's President Vladimir Putin during a Kremlin press conference on 18 December 2014.² Putin himself admitted this, too, at the press conference. (In his opening address(Putin explained that "the situation has changed under the influence of certain foreign economic factors, primarily the price of energy resources, of oil and consequently of gas as well".³

Some may think that the drop in the Russian ruble's value is a result of the market's acting on its own, while others who recognise that there is market manipulation involved may turn around and blame it on the Russian government and Vladimir Putin. This process, however, has been guided by US machinations. It is simply not a result of the market's acting on its own or a result of Kremlin policies. It is the result of US objectives and policy that deliberately target Russia for destabilisation and for devastation. This is why Putin (said in his opening address at the press conference] that the drop in the value of the Russian ruble "was obviously provoked primarily by external factors".⁴

Both US Assistant Secretary of State (for European and Eurasian Affairs) Victoria Nuland—wife of the Project for the New American Century (PNAC) co-founder and neoconservative advocate for empire, Robert Kagan—and US Assistant Secretary of the Treasury Daniel Glaser told the Committee on Foreign Affairs of the US House of Representatives in May 2014 that the objective of the US economic sanctions strategy against the Russian Federation was not only to damage the trade ties and business between Russia and the European Union (EU), but also to bring about economic instability in Russia and to create currency instability and inflation.⁵ In other words,

the US government was targeting the Russian ruble for devaluation and the Russian economy for inflation since at least May 2014.

It appears that the US is trying to manipulate the Kremlin into spending Russia's resources and fiscal reserves to fight the inflation of the Russian ruble that Washington has engineered. The Kremlin, however, will not take the bait and be goaded into depleting the approximately US\$419 billion in foreign currency reserves and gold holdings of the Russian Federation or any of Russia's approximately 8.4 trillion ruble reserves in an effort to prop the declining value of the Russian ruble. In this regard, President Putin stated at his 18 December 2014 press conference: "The Central Bank does not intend to 'burn' them all senselessly, which is right".⁶ Putin emphasised this when answering Vyacheslav Terekhov's question, saying that the Russian government and Russian Central Bank "should not hand out our gold and foreign currency reserves or burn them on the market, but provide lending resources".⁷

The Kremlin understands what Washington is trying to do. The US is replaying old game plans against Russia. The energy price manipulation, the currency devaluation and even US attempts to entrap Russia in a conflict with its sister republic Ukraine are all replays of US tactics that have been used before and during the Cold War and after 1991. For example, dragging Russia into Ukraine would be a replay of how the US dragged the Soviet Union into Afghanistan, whereas the manipulation of energy prices and currency markets would parallel the US strategy used to weaken and destabilise Baathist Iraq, Iran and the Soviet Union during the Afghan-Soviet War and the Iran-[Iraq] War.

Instead of trying to stop the value of the ruble from dropping, the Kremlin appears to have decided to invest strategically in Russia's human capital. Russia's national reserve funds will be used to diversify the national economy and strengthen the social and public sectors. Despite the economic warfare against Russia, this is exactly why the wages of teachers in schools, professors in post-secondary institutions of learning and training, employees of cultural institutions, doctors in hospitals and clinics, paramedics and nurses—the most important sectors for developing Russia's human capital and capacity—have all been raised.

The Russian Bear Courts the Turkish Grey Wolf

The Kremlin, however, has an entire list of options at its disposal for countering the US offensive against Russia. One of them involves the courting of Turkey.

The Russian courtship of Turkey has involved the Russian move away from the construction of the South Stream natural gas pipeline from Russia across the Black Sea to Bulgaria.

Putin announced that Russia had cancelled the South Stream project on 1 December 2014. Instead, the South Stream pipeline project has been replaced by a natural gas pipeline that will go across the Black Sea to Turkey from the Russian Federation's Southern Federal District. This alternative pipeline has been popularly billed the "Turk Stream", and it partners Russian energy giant Gazprom with Turkey's BOTAS. Moreover, Gazprom will start giving Turkey discounts on the purchase of Russian natural gas that will increase with the intensification of Russo-Turkish cooperation.

The natural gas deal between Ankara and Moscow creates a win-win situation for both the Turkish and Russian sides. Not only will the Turk Stream give Ankara a discount on energy supplies, but it will give the Turkish government what it has wanted and desired for years. The Turk Stream pipeline will make Turkey an important energy corridor and transit point, complete with transit revenues. In this case, Turkey will become the corridor between energy supplier Russia and European Union and non-EU energy customers in southeastern Europe. Ankara will gain some leverage over the European Union and have an extra negotiating card with the EU, too, because the EU will have to deal with it as an energy broker.

For its part, Russia has reduced the risks that it faced in building the South Stream by cancelling the project. Moscow could have wasted resources and time building the South Stream, only to see the project sanctioned or obstructed in the Balkans by Washington and Brussels. If the European Union really wants Russian natural gas, then the Turk Stream pipeline can be expanded from Turkey to Greece, the former Yugoslav Republic of Macedonia, Serbia, Hungary, Slovenia, Italy, Austria and other European countries that want to be integrated into the energy project.

The cancellation of the South Stream also means that there will be one less alternative energy- corridor from Russia to the European Union for some time.

This has positive implications for a settlement in Ukraine, which is an important transit route for Russian natural gas to the European Union. As a means of securing the flow of natural gas across Ukrainian territory from Russia, the European Union will be more prone to push the authorities in Kiev to end the conflict in East Ukraine.

In more ways than one, the Turk Stream pipeline can be viewed as a reconfiguration of the failed Nabucco natural gas pipeline. Not only will Turk Stream court Turkey and give Moscow leverage against the European Union—instead of reducing Russian influence, as Nabucco was originally intended to do—but the new pipeline to Turkey also will coax Ankara to align its economic and strategic interests with those of Russian interests. This is why, when

addressing Nabucco and the rivalries for establishing alternative energy-corridors, this author pointed out in 2007: "(T)he creation of these energy corridors and networks is like a two-edged sword. These geo-strategic fulcrums or energy pivots can also switch their directions of leverage. The integration of infrastructure also leads towards economic integration."⁸

The creation of Turk Stream and the strengthening of Russo-Turkish ties may even help placate the gory conflict in Syria. If Iranian natural gas is integrated into the mainframe of Turk Stream through another energy corridor entering Anatolia from Iranian territory, then Turkish interests would be even more tightly aligned with both Moscow and Tehran. Turkey will save itself from the defeats of its neo-Ottoman policies and be able to withdraw from the Syrian crisis. This will allow Ankara to realign itself politically with two of its most important trading partners: Iran and Russia.

It is because of the importance of Irano-Turkish and Russo-Turkish trade and energy ties that Ankara has had an understanding with both Russia and Iran not to let politics and their differences over the Syrian crisis get in the way of their economic ties and business relationships—while Washington has tried to disrupt Irano-Turkish and Russo-Turkish trade and energy ties like it has disrupted trade ties between Russia and the EU.⁹ Ankara, however, realises that if it lets politics disrupt its economic ties with Iran and Russia, Turkey itself will become weakened and lose whatever independence it enjoys.

Masterfully announcing the Russian move while in Ankara, Putin also took the opportunity to ensure that there would be heated conversation inside the European Union. Some would call this "rubbing salt into the wounds". Knowing that profit and opportunity costs would create internal debate within Bulgaria and the EU, Putin rhetorically asked if Bulgaria was going to be economically compensated by the European Commission for the loss.

The Russian Bear and the Chinese Dragon

It is clear that Russian business and trade ties have been redirected to the People's Republic of China and East Asia. On the occasion of the Sino-Russian meganatural gas deal, this author pointed out that this was not as much a Russian countermove to US economic pressure as it was really a long-term Russian strategy that seeks an increase in trade and ties with East Asia.¹⁰ Vladimir Putin himself also corroborated this standpoint during the 18 December press conference, mentioned earlier, when he dismissed—like this author—the notion that the so-called "Russian turn to the East" was mainly the result of the crisis in Ukraine.

In President Putin's own words, the process of increasing business ties with the Chinese and East Asia "stems from the global economic processes, because the East—that is, the Asia-Pacific Region—shows faster growth than the rest of the world".¹¹ If this is not convincing enough that the turn towards East Asia was already in the works for Russia, then Putin made it categorically clear as he proceeded talking at the 18 December press conference. In reference to the Sino-Russian gas deal and other Russian projects in East Asia, Putin explained the following: "The projects we are working on were planned long ago, even before the most recent problems occurred in the global or Russian economy. We are simply implementing our long-time plans."¹²

From the perspective of Russian presidential adviser Sergey Glazyev, the US is waging its multi-spectrum war against Russia ultimately to challenge Moscow's Chinese partners.

In an insightful interview [posted on 17 July 2014], Glazyev explained the following points to the Ukrainian journalist Alyona Berezovskaya— working for a Rossiya Segodnya [Russia Today] subsidiary focusing on information involving Ukraine—about the basis for US hostility towards Russia. The bankruptcy of the US, its decline in competitiveness on global markets, and Washington's inability to save its financial system by servicing its foreign debt or getting enough investments to establish some sort of innovative economic breakthrough are the reasons why Washington has been going after the Russian Federation.¹³ In Glazyev's own words, the US wants "a new world war".¹⁴ The US needs conflict and confrontation, in other words. This is what the crisis in Ukraine is nurturing in Europe.

Sergey Glazyev reiterated the same points months down the road on 23 September 2014 in an article he wrote for the magazine *Russia in Global Affairs*, which is sponsored by the Russian International Affairs Council— a think-tank founded by the Russian Ministry of Foreign Affairs and the Russian Ministry of Education [and Science] in 2010— and the US journal *Foreign Affairs*— which is the magazine published by the Council on Foreign Relations in the US. In his article, Glazyev added that the war which Washington is inciting against Russia in Europe may ultimately benefit the Chinese because the struggle being waged will weaken the US, Russia and the European Union to the advantage of China.¹⁵ The point of explaining all this is to clarify that Russia wants a balanced strategic partnership with China. Glazyev himself even told Berezovskaya in their interview that Russia wants a mutually beneficial relationship with China that does [not] reduce it to becoming a subordinate to Beijing.¹⁶

Without question, the US wants to disrupt the strategic partnership between Beijing and Moscow. Moscow's strategic long-term planning and Sino-Russian cooperation have provided the Russian Federation with an important degree of economic and strategic insulation from the economic warfare being waged against the Russian national economy. Washington, however, may also be trying to entice the Chinese to overplay their hand as Russia is economically attacked. In this context, the price drops in the energy market may also be geared at creating friction

between Beijing and Moscow. In part, the manipulation of the energy market and the price drops could seek to weaken and erode Sino-Russian relations by coaxing the Chinese into taking steps that would tarnish their excellent ties with their Russian partners.

The currency war against the Russian ruble may be geared towards this, too. In other words, Washington may be hoping that China becomes greedy and shortsighted enough to make an attempt to take advantage of the price drop in energy prices in the devaluation of the Russian ruble.

Whatever Washington's intentions are, every step that the US takes to target Russia economically will eventually hurt the US economy, too.

It is also highly unlikely that the policy mandarins in Beijing are unaware of what the US may be trying to do. The Chinese are aware that, in the end, it is China and not Russia that is the target of the United States.

Economic Terrorism

The United States is waging a fully fledged economic war against the Russian Federation and its national economy, and all Russians collectively are the target. The economic sanctions are nothing more than economic warfare. If the crisis in Ukraine had not happened, another pretext would have been found for assaulting Russia.

Both US Assistant Secretary of State Victoria Nuland and US Assistant Secretary of the Treasury Daniel Glaser even told the Committee of Foreign Affairs in May 2014 that the ultimate objectives of the US economic sanctions against Russia are to make the Russian population so miserable and desperate that they would eventually demand that the Kremlin surrender to the US and bring about political change. "Political change" can mean many things, but what it most probably implies here is "regime change" in Moscow. In fact, the aims of the US do not even appear to be geared at coercing the Russian government to change its foreign policy, but to incite regime change in Moscow and to cripple the Russian Federation entirely through the instigation of internal divisions. This is why maps of a divided Russia are being circulated by Radio Free Europe.¹⁷

According to presidential adviser Sergey Glazyev, Washington is "trying to destroy and weaken Russia, causing it to fragment, as they need this territory and want to establish control over this entire space".¹⁸ "We have offered cooperation from Lisbon to Vladivostok, whereas they need control to maintain their geopolitical leadership in a competition with China," he explained, pointing out that the US wants lordship and is not interested in cooperation.¹⁹

Alluding to former top US diplomat Madeleine Albright's sentiments that Russia is unfairly endowed with vast territory and resources, Putin also spoke along similar lines at his 18 December 2014 press conference, explaining how the US wants to divide Russia and control the abundant natural resources in Russian territory.

It is of little wonder that in December 2014 a record number of Russian citizens had negative attitudes about relations between their country and the United States. A survey conducted by the Russian Public Opinion Research Center has shown that 39 per cent of Russian respondents viewed relations with the US as "mostly bad" and 27 per cent as "very bad".²⁰ This means that 66 per cent of Russian respondents have negative views about relations with Washington. This is an inference of the entire Russian population's views. Moreover, this is the highest rise in negative perceptions about the US since 2008 when the US supported Georgian President Mikheil Saakashvili in Tbilisi's war against Russia and the breakaway republic of South Ossetia: 40 per cent of Russians viewed them as "mostly bad" and 25 per cent viewed relations as "very bad" at the time.²¹

Russia can address the economic warfare being directed against its national economy and society as a form of "economic terrorism". If Russia's banks and financial institutions are weakened with the aim of creating financial collapse in the Russian Federation, Moscow can introduce fiscal measures to help its banks and financial sector—measures that could create economic shockwaves in the European Union and North America. Speaking in hypothetical terms, Russia has lots of options for a financial defensive or counteroffensive that can be compared to its scorched earth policies against Western European invaders during the Napoleonic Wars, the First World War and the Second World War. If Russian banks and institutions default and do not pay for or delay payment of their derivative debts and justify this on the basis of the economic warfare and economic terrorism, there would be a financial shock and tsunami that would [reverberate] from the European Union to North America. This scenario has some parallels to the steps that Argentina has taken to sidestep the vulture funds.

The currency war eventually will rebound on Washington and Wall Street. The energy war will also reverse directions. Already, the Kremlin has made it clear that it and a coalition of other countries will de-claw the United States in the currency market through a response that will neutralise US financial manipulation and the petrodollar.

In the words of Sergey Glazyev, Moscow is thinking of a "systemic and comprehensive" response "aimed at exposing and ending US political domination, and, most importantly, at undermining US military-political power based on the printing of dollars as a global currency".²² His solution includes the creation of "a coalition of sound forces advocating stability—in essence, a global anti-war coalition with a positive plan for rearranging the international financial and economic architecture on the principles of mutual benefit, fairness, and respect for

national sovereignty".²³

The coming century will not be the "American Century", as the neoconservatives in Washington think. It will be a "Eurasian Century". Washington has taken on more than it can handle. This may be why the US government has announced an end to its sanctions regime against Cuba and why the US is trying to rekindle trade ties with Iran. Despite this, the architecture of the post-Second World War or post-1945 global order is now on its death bed and finished. This is what the Kremlin and Putin's presidential spokesman and press secretary Dmitry Peskov mean when they impart—as Peskov stated to Rossiya-24 in a 17 December 2014 interview—that the year 2014 has finally led to "a paradigm shift in the international system". ^

About the Author:

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Pyroluria and Candida

Twin Causes of Modern Diseases

Pyroluria, a common metabolic condition in which the biochemical pyrrole is overproduced in the liver, may be inherited or acquired through liver damage from medical drugs, infections or Candida-caused intestinal dysbiosis. Pyroluria is a prevalent, underlying factor in people with chronic diseases.

by Walter Last

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Two Conditions Making Health Problems Much Worse

Pyroluria and Candida, just like other modern diseases, have greatly increased in recent decades. However, I have now come to the conclusion that they are not just normal diseases but, rather, the underlying causes for the epidemic increase of many or most of our modern diseases. Pyroluria and Candida not only cause very similar disease symptoms, but they also encourage each other's development. If both are present together, they make any health problems very much worse.

Pyroluria is a common metabolic condition in which pyrrole, a key component of haem or haemoglobin, is overproduced in the liver and bone marrow. The surplus binds to vitamin B6 and zinc and is excreted in the faeces and urine, but part of it tends to remain in the body as obstructive waste residues. This creates severe deficiencies in B6 and zinc, and to a lesser degree in some other nutrients such as niacinamide, *gamma*-linolenic acid (GLA), biotin and sometimes manganese; also, other B vitamins, especially B2, B3 and B5, may be low. Vitamin B6 and zinc are essential for producing enzymes that are required for building all proteins, be they other enzymes, hormones and neurotransmitters, and components of the immune system, muscles, organs and connective tissues.

Another major problem is that pyrrole waste chemicals tend to inhibit the conversion of pyridoxine, the common form of vitamin B6 in food, into its active form, pyridoxal-5-phosphate or P5P. In a vicious circle, deficiency of P5P reduces the synthesis of haem and haemoglobin and increases the formation of pyrrole wastes.

Other names for pyroluria are *pyrroluria*, *pyrrole disorder* and *mauve factor* or *Mauve*. Initially it was thought that the compound causing the colour change in urine is kryptopyrrole or KP, but newer research has found the mauve factor to be the closely related derivative hydroxyhaemopyrrolin-2-one or HPL. However, many other pyrrole derivatives are excreted as well.

It has been estimated that the prevalence of pyroluria in the general population is about 10 per cent, and in those with chronic diseases and unexplained health problems it is closer to 50 per cent and up to 80 per cent, especially in the acute stages of mental-emotional problems such as ADHD/hyperactivity, anxiety disorders, autism/Asperger syndrome, bipolar disease, depression, obsessive compulsive disorder and schizophrenia but also with cancer, especially bowel cancer, dementia and liver diseases. With criminal behaviours the prevalence can be up to 71 per cent (criminality as a deficiency disease?), and with all porphyrin diseases it is 100 per cent.¹ (This reference also has a list of diagnostic laboratories.)

Pyroluria is widely accepted and treated in natural medicine but is not recognised by conventional medicine, which basically ignores it. Conventional medicine uses instead the name *porphyria* for a rare form of liver disease in which one of eight different liver enzymes needed for the production of haemoglobin and other haem proteins is deficient, causing seven different types of porphyria. These cause somewhat different sets of symptoms, mainly with abdominal pain, colic, neuropathy, psychiatric disorders, tachycardia (fast heartbeat), severe photosensitivity with erythaema (skin redness or rash), purple skin lesions, swelling and blistering, haemolytic anaemia, enlarged spleen, developmental delay, gallstones and liver dysfunction.

The word *porphyria*, derived from Greek, means "purple pigment". This refers to the purple discolouration of faeces and urine when exposed to sunlight, as happens with patients during an attack. This is also why the term *mauve factor* has been used for pyroluria. Conventional medicine generally distinguishes between *acute* porphyrias, mainly affecting the nervous system, often with severe abdominal pain, nausea, vomiting, neuropathy and acute mental-emotional problems, and *cutaneous* porphyrias with skin inflammations, often after exposure to sunlight, due to the accumulation of excess porphyrins in the skin. All or any of these symptoms can also be present with pyroluria.

Pyroluria definitely belongs to the porphyrias, but relatively few specialised medical laboratories test for it or for porphyria enzymes. These conventional enzyme-deficiency tests are very ineffective and tend to work only when patients are tested during acute attacks. Repeat testing may be necessary to detect porphyria; and even in the

initial stages of life-threatening attacks, tests may fail.² This makes it understandable why porphyria is regarded as a very rare disease in conventional medicine, while pyroluria, a form of porphyria which is much more easily detectable, is so widespread. Pain and nausea during acute stages of porphyria can be very severe and out of proportion to any physical signs.

Pyroluria and the Microbial Connection

The film *The Madness of King George* relates the story of King George III's bouts with porphyria/pyroluria, with his doctors chasing after him to examine his urine for signs of the mauve factor. Deterioration of the disease is indicated when the urine develops a mauve colour as excreted pyrrole derivatives (HPL) are exposed to ultraviolet light.

Depending on conditions, pyroluria is not only a main cause of mental-emotional disorders but also may be a leading cause of neurological dysfunctions, type 1 diabetes, epilepsy, weak connective tissue, skin inflammations, poor muscle development and blood problems. With severe vitamin B6 and zinc deficiency, nothing works properly and a wide range of chronic health problems is present (table 1). This is the common condition of most elderly individuals, but, in the presence of pyroluria, chronic health problems start much earlier, often in childhood, and they are more disabling.

The main cause of pyroluria appears to be intestinal dysbiosis with overgrowth of *Candida*, pleomorphic (shape-changing) microbes and possibly Lyme disease/borreliosis. Any or all of these, in addition to viruses, may invade the liver and affect its functions. They also seem to be able to insert some of their own DNA into liver genes, especially changing the mitochondrial DNA involved with energy production. This then causes the acquired condition to be inheritable, so it often runs in families. Due to the overuse of antibiotics and other drugs, presently the original cause tends to be the fungal form of *Candida*, often in combination with the microbes of Lyme disease and parasites. Normal medical tests do not discover the fungal form of *Candida* in internal organs, only the less-harmful yeast form.

Pyroluria Symptoms

The symptoms of pyroluria generally fall into distinct groups. While, commonly, individuals experience problems with all groups, some symptoms may be rather mild and others quite severe. These main groups are liver and gastrointestinal problems, mental-emotional and neurological problems, disorders of the blood circulation, skin problems, muscle problems and, above all, connective tissue disorders.

Some pyroluria symptoms, such as poor dream recall, are mainly functional and can improve rather quickly, but inherited conditions such as psoriasis, emotional or mental disorders and weak connective tissue can take a long time to improve. In advanced cases and in the presence of *Candida*, major improvements may take a long time to show up because all connective tissue needs to be rebuilt. Pyroluria difficulties commonly increase with age and especially with intestinal dysbiosis. In children, only certain acute symptoms may manifest: mainly digestive discomfort and abnormal brain activity such as hyperactivity and autism.

Many of the functional symptoms will only be present during acute stages, while long-term problems due to the accumulation of pyroluric and metabolic waste products in tissues may only show up with the inherited form of pyroluria. Newly acquired pyroluria may mainly affect the liver and cause overacid, oxidative and inflammatory body conditions, often with arthritis, fatigue and back or muscle pain. The presence of several of the symptoms shown in table 1 (*below*) may indicate pyroluria.

Table 1: Symptoms of Pyroluria

1. Poor dream recall (vitamin B6 deficiency)
2. White spots on fingernails and stretch marks without added zinc
3. Poor sense of smell or taste (zinc deficiency)
4. Morning nausea or poor morning appetite, periods of abdominal pain
5. Difficulty digesting, especially proteins and fats; low gastric acid
6. Much more alert and capable in the evening than in the morning
7. Pale or sensitive skin, poor tanning, skin burns easily in the sun
8. Prone to acne, eczema, psoriasis or other skin inflammations
9. Dry, fragile or early-ageing skin, inelastic blood vessels, aneurisms
10. Skin de-pigmentation/vitiligo, early greying hair

11. Poor connective tissue and muscle development, hernias, cysts
12. Eye problems, sensitivity to bright light (vitamin B2 deficiency)
13. Hypersensitivity to loud noises (magnesium helps)
14. Poor coping with stress, weak adrenal glands (vitamin B5 helps)
15. When young, prone to frequent colds, infections and inflammations
16. Mood swings, temper outbursts, argumentative and dramatic tendencies
- 17 Easily upset by criticism, "takes things to heart"
18. Bouts of depression or nervous exhaustion
19. Anxious, shy, worried, concerned, fearful; inner tensions
20. Stressed by new situations or changes in routine
21. Tendency towards being a loner or avoiding larger groups of people
22. Feeling uncomfortable with strangers
23. Poor short-term memory, dementia, Alzheimer's disease
24. Difficulty recalling past events, names or people
25. Mental diseases or emotional problems, neurological disorders
26. Family history of mental illness, suicide, addiction, psoriasis
- 27 Fatigue, tires easily, low energy or low energy reserves
28. Fat malabsorption, poor fat metabolism, bloating, light-coloured stool
29. Tendency towards anaemia, bleeding disorders and allergies
30. Bouts of hypoglycaemia, low blood pressure, type 1 diabetes, epilepsy
31. Low blood pressure when young; blood pressure may rise with advancing age
32. Arthritis, especially rheumatoid and psoriatic arthritis
33. Problems with liver and gall bladder, pancreas, stomach and intestines
34. Problems with thyroid, parathyroid, adrenal and sex hormones
35. Cold hands and feet, carpal tunnel syndrome,
Raynaud's syndrome
36. Problems with shoulders, arms, wrists, fingers, hands (vitamin B6 deficiency)
- 37 Paraesthesia (tingly sensations or numbness), tremors in arms or legs
38. Hypermobility of joints or skin, Ehlers-Danlos syndrome
39. Had side-stitches as a child when running, crowded teeth
40. Hormonal imbalances, low enzyme activity, missing enzymes
41. Reached puberty later than normal, menopausal problems
42. Abnormal body-fat distribution around abdomen
43. Autism, hyperactivity, reading difficulty or dyslexia, distorted cornea
44. China-doll syndrome, Moebius syndrome, facial paralysis

45. Peyronie's disease (fibrosis of the penis)

46. May overreact to antibiotics, tranquillisers, alcohol or other drugs

47 Symptoms of Candida and intestinal dysbiosis

Depressed Haem Production

In this section I describe some key conditions in more detail, based on published research^{3, 4, 5} and my own experience.

Haem or heme (US spelling) is a heterocyclic ring system called *porphyrin*, which consists of four simple pyrrole groups joined together, and in the centre of the porphyrin ring is a ferrous or 2-valence iron ion. This is a haemoprotein. Haem is best known as a component of haemoglobin, the red pigment in blood, but is also present in muscles as myoglobin, in cytochrome needed for oxidative energy production, in catalase which prevents oxidative stress, and in endothelial nitric oxide synthase which helps to relax blood vessels and muscles. Thyroid peroxidase containing haem uses iodide ions and hydrogen peroxide to generate iodine and plays a central role in the biosynthesis of thyroid hormones T3 and T4. Haems are also important for the immune system and various other functions such as neuronal metabolic activity.

Without haem, cells cannot generate energy from oxidising food. Depression of haem production leads to serious metabolic defects with anaemia, underproduction of energy, mitochondrial and neuronal decay with muscle weakness, mental-emotional problems as well as overproduction of nitric oxide causing slack and inelastic blood vessels. From this, it is easy to see how the disturbed production of haem in the liver has wide-ranging negative effects on all body functions, even before taking into account the serious vitamin B6 and zinc deficiencies that are created in this way.

Deficiencies of vitamin B6, zinc and biotin also directly reduce the synthesis of haem. These deficiencies increase stress levels, causing weak adrenal glands, and stress independently degrades haem. It is all a vicious circle. Further, it is known that heavy metals, especially mercury, tend to disrupt the porphyrin metabolism and increase haem degradation. Haem depression increases leakage of oxidants from the mitochondria, thereby causing oxidative damage to cells and unsaturated oils.

Oxidative Stress

Oxidative stress also results from deficiency of zinc or P5P, the active form of vitamin B6. Glutathione is a key antioxidant inside cells. Even marginal P5P deficiency is associated with lower glutathione enzymes, causing lower levels of *reduced* glutathione and higher levels of *oxidised* glutathione.

There are also higher levels of oxidised oils and other lipids, and deterioration of energy-producing mitochondria.

The P5P itself is highly vulnerable to oxidative damage. P5P protects neurons from oxidative stress, apparently by increasing energy production and lowering excitotoxicity as from monosodium glutamate (MSG), while zinc supplementation decreases oxidised biomolecules.

Since excretion of pyrrole derivatives is a marker for B6 and zinc deficiency, it is also a biomarker for oxidative stress.

Also, other biomarkers for oxidative stress are known to be higher in high-pyrrole-excretion disorders such as schizophrenia, autism, ADHD, Down syndrome and alcoholism. Plasma levels of reduced glutathione are decreased in diseases associated with greater oxidative stress, such as Down syndrome and Alzheimer's disease. Oxidative stress of the brain precedes the neurofibrillary tangles and plaque which indicate Alzheimer's disease. Low plasma glutathione correlates with increased levels of oxidised biomolecules in the brain. There is a very strong correlation of urinary pyrroles with plasma glutathione levels as a biomarker for oxidative stress.

Pyrroles and Catalase

Catalase is a common enzyme which protects cells and biomolecules from oxidative damage. It causes the decomposition of hydrogen peroxide (H₂O₂) to water and oxygen. One catalase molecule can convert millions of hydrogen peroxide molecules to water and oxygen every second. It has four haem groups.

Excess pyrrole means reduced haem production and lower catalase levels. Catalase blood levels are low in schizophrenia and autism. A lower catalase level is associated with higher H₂O₂ levels and explains the hypopigmentation of the skin associated with excess pyrroles, such as pale, easily burning skin and the classic "china-doll" complexion.

In extreme cases, low catalase and high H₂O₂ can lead to de-pigmentation of the skin, as in vitiligo. This causes oxidative destruction of melanin and the pigment-producing melanocytes. This is also the mechanism by which

high-level pyroluria causes early greying of the hair. Excess H₂O₂ increases oxymelanin in hair and lightens it, similar to applying bleach.

Even zinc deficiency in itself leads to hypopigmentation, as melanin is rich in zinc and needs zinc for synthesis and maintenance. Zinc protects melanocytes from oxidation, and experimental zinc deficiency greys the coats of rats. H₂O₂ displaces zinc from its binding proteins, and greater oxidative stress contributes to clinical zinc deficiency. In addition, copper (best supplied as organic copper complexes) is needed for melanin production.

A further consequence of low catalase activity and subsequent oxidative stress in the liver is the iron-storage disease haemochromatosis. Too much oxidised or ferric iron accumulates in the body, especially in the liver and spleen, thereby greatly increasing oxidative stress. Most elderly individuals are affected.

In order to be transported around the body to form red blood cells in bone marrow or to carry oxygen attached to haemoglobin, iron needs to be reduced by vitamin C from the 3-valence storage form to 2-valence ferrous iron. However, the small amount of vitamin C normally ingested is immediately oxidised in the liver and is not able to reduce much 3-valence iron. Therefore, the body is forced to absorb ever more iron to obtain what it needs. I found with several patients that 10 grams of vitamin C spaced out during the day quickly eliminates haemochromatosis.

Connective Tissue Problems

Major health problems are caused by weak connective tissue, and especially poorly constructed and inelastic collagen. With inherited pyroluria, we may find blood-clotting disorders and weak blood-vessel development such as peripheral vascular disease (PVD) leading to varicose veins, deep vein thrombosis, leg ulcers potentially requiring leg amputation in diabetics, and poor blood supply to the brain.

Many common conditions such as arthritis, degenerative eye changes (e.g., cataracts, macular degeneration), migraines and multiple sclerosis are aggravated by circulation problems. Capillaries become easily congested from clotting or hypercoagulation and break easily with bruising and bleeding. Aneurisms or ballooning arteries may be present as well as slack veins that do not properly pump blood back to the heart. Blood and metabolic wastes pool in the lower veins, causing cold hands and feet as well as prostate problems and haemorrhoids.

Muscles and joints may be underdeveloped, and the skin is not tight and elastic but stretches too much and ages too early. Because tendons are too slack, there may be hypermobility of joints—Ehlers-Danlos syndrome, where joints easily get out of their sockets and the body does not have sufficient stability. Marfan syndrome, characterised by tall individuals with long, slender limbs, is mainly a connective tissue disease.

Tissue fibrosis is common. A rarer form is Peyronie's disease, with fibrosis in the penis.

Another frequent effect is keratosis—hardening of the skin and mucous membranes, also causing weakness, distortions and infections (keratitis) of the cornea with visual problems. Serious connective tissue diseases are mainly present in inherited forms but not normally in the acquired condition of pyroluria.

Accumulating Pyrrole Residues

While connective tissue problems are mainly due to deficiency of P5P and zinc, a set of other problems is caused by the accumulation of pyrrole residues in different parts of the body. While some of the excess pyrrole derivatives are excreted through the bowels and bladder, others remain in the body, in muscles, skin, brain and joints, and clog the blood vessels. This is a main contributor to the development of autoimmune diseases, especially rheumatoid and infectious forms of arthritis, psoriasis and psoriatic arthritis, inflammatory skin problems and other inflammatory conditions, circulation problems, immune dysfunction, fibromyalgia, pain and chronic fatigue.

I assume also that problems related to sexual hormones and functions, such as prostate enlargement, male pattern baldness, erectile difficulties, problems with conception, postnatal depression and polycystic ovary syndrome, are often due to an interaction of two factors: disturbances in the production of sex hormones related to deficiencies of P5P and zinc, and accumulation of waste residues from pyrrole derivatives and other dead proteins. Again, the underlying cause of both of these factors can be traced back to the liver, and specifically to difficulties with haem production.

A major problem with these residues is their neurotoxic and tissue-irritating properties which are strongly pro-inflammatory, pro-oxidative and acidic. These residues are unstable, reacting with each other and other body molecules to become difficult to dissolve and expel with the urine. Pyrolurics also do not normally have the capacity to process and expel these residues through the liver. This leaves mainly the skin as a viable alternative. This is what the body tries to do with psoriasis and other inflammatory skin conditions.

More problems arise because these pyrrolic wastes form an ideal environment for microbial colonies. The irritating and inflammatory effect of pyrrole residues on the inner lining of blood vessels invites microbes present in the blood to infiltrate and cholesterol to attach to soothe the condition. This, then, in combination with vitamin C

deficiency, may be the true cause of cardiovascular disease, with heart infarcts and strokes to follow. Due to the slack venous system, the blood pressure is often low in younger years; and increasing arterial congestion may raise blood pressure with advancing age. Strongly activating the immune system, as with high doses of vitamin C, may start removing these waste residues through the skin with outbreaks of itchy pimples, blisters and other inflammatory psoriatic skin conditions. This is a fast way of cleansing, but its also uncomfortable because of the intense itching that it causes. An easier method is periodic fasting and cleansing with high intakes of alkaline water and fresh green juices, or fresh green leaves pureed in a high-speed blender. Slow but very effective and with few side-effects is the use of high-level proteolytic enzymes. Best suited are serrapeptase for removing protein wastes and nattokinase for cleaning capillaries and other blood vessels.

Mental-Emotional and Other Brain Problems

There are several ways in which pyroluria and Candida, individually and jointly, affect the brain to cause mental-emotional diseases and other brain problems. There is the deficiency of neurotransmitters caused by P5P and zinc deficiency, the blockage of the mitochondrial oxidative energy generation by chemicals produced by Candida and other microbes, and the clogging up of capillaries and brain cells with inflammatory and acidic pyrrole-based waste protein.

The combined effect of these assaults is severe energy deficiency in parts of the brain in addition to a lack of proper nerve transmissions. Problems are intensified by commonly existing multiple allergies and mercury toxicity. Even relatively young individuals with severe inherited pyroluria may accumulate high levels of waste proteins in brain cells, as is typical for individuals with dementia, Alzheimer's or Parkinson's disease.

Pyroluria, previously called "mauve factor", was discovered in the 1960s by Abram Hoffer, MD, PhD, a Canadian psychiatrist, while working with schizophrenics, bipolar patients, mentally retarded or disturbed children, and criminals. In addition to using ascorbate/vitamin C, he successfully treated schizophrenia with very high doses of niacinamide/vitamin B3.

This is the main vitamin to increase oxidative energy production. All of the recovered schizophrenics also converted from Mauve-positive to Mauve-negative, indicating the link between defective oxidative energy production and pyroluria. When niacinamide was discontinued, Mauve reappeared.

In the early 1970s, Carl Pfeiffer, MD, PhD, introduced a relatively simple, quantitative colouri-metric test for Mauve in urine.

Dr Pfeiffer was working with schizophrenia when he discovered the suppression of urinary Mauve and subsequent clinical improvement with high doses of vitamin B6 and zinc. This protocol has more recently been modified by using mainly activated vitamin B6 or P5P.

Blackouts or "grey-outs" tend to be a common stress response of sensitive individuals with uncontrolled pyroluria. Stress, just like coffee or sweet food, strongly increases the blood sugar level in preparation for physical action. But if no such action happens, the pancreas releases an excessive amount of insulin in response to the elevated blood sugar level. This drives the blood sugar down too low which, in association with the resulting low blood pressure, causes severe lack of energy in the brain. Affected individuals tend to end up in the medical system, having lots of X-rays, scans and other tests without a cause being found.

Until sufficient improvement is achieved with a pyroluria and Candida program, these individuals should carry a little bottle of glycerine with them and take a good sip when they feel a problem coming on or before an expected stress, preferably swishing part of it in the mouth for a minute for immediate absorption before swallowing. Glycerine is best suited because it provides quick energy without affecting the insulin response. If it gets bad, lie down or stay close to the floor. Definitely stop driving if you're on the road.

The Pyroluria and Candida Partnership

It is difficult and often not possible to differentiate between effects caused by pyroluria and Candida, as both tend to affect the same systems although usually in different ways. Even without entering the blood itself, Candida can produce these effects with the chemicals it releases into the blood via the intestinal tract, vagina, mouth and lungs. The main chemicals have been identified as acetaldehyde, tartaric acid and arabinose, an abnormal five-carbon sugar.⁶

The more serious conditions commonly arise from an uncontrolled Candida overgrowth coming on top of inherited pyroluria. Candida toxins absorbed from the intestines into the blood disable much of the energy production in the brain, muscles and connective tissue, thereby reinforcing similar problems due to deficient haem production, accumulating protein wastes, and vitamin B6 and zinc deficiency caused by pyroluria. This partnership between inherited pyroluria and acquired Candida overgrowth in combination with leaky gut syndrome underlies most of our modern diseases. Which parts and functions of the body become affected depends mostly on other acquired or inherited weaknesses.

Cachexia with severe muscle wasting, weakness and anaemia is the last stage of cancer, AIDS, tuberculosis and other deadly infections. In my understanding, this is due to extreme liver stress causing pyroluria and an inability to produce haem, in addition to fungal/microbial/pleomorphic destruction of red blood cells, severe energy deficiency and overacidity from blockage of oxidative energy production.

A further factor is that there usually do not seem to be any serious or obvious symptoms from pyroluria until intestinal dysbiosis develops. The main cause of intestinal dysbiosis and overgrowth with Candida is the use of medical drugs, mainly broad-spectrum antibiotics, steroids and chemotherapy drugs, that kill our good intestinal bacteria. Initially this causes proliferation of the yeast form of Candida, which morphs into the invasive fungal or hyphal form with long, branching, filamentous tentacles. These tentacles then grow within the intestinal wall, causing inflammation and making it permeable for toxins from the intestinal tract. With this, we now have leaky gut syndrome— called *intestinal permeability* in conventional medicine. This is the basis for the development of allergies, for microbial toxins getting into the blood and seriously weakening the immune system, and for Candida chemicals affecting the brain and other organs.

With healthy intestinal bacteria, pyrrole chemicals are generally fat soluble and are mainly excreted through the gall bladder into the intestines and then expelled with bowel movements. However, with intestinal dysbiosis some of these excretions are reduced by pathological microbes into water-soluble forms. These can be reabsorbed into the blood, from where they are partly expelled with the urine and partly accumulate in tissues. Normally, P5P and zinc deficiencies are mainly restricted to the liver but after re-absorption of pyrrole residues these deficiencies directly affect the whole body.

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For more information, and to download the complete version of Walter Last's "Pyroluria and Candida" article, go to the website <http://www.health-science-spirit.com>.

Editor's Note:

This is a shortened version of Walter Last's article. The complete article contains additional sections entitled Removing the Residues, The Cause of Autism, Causes of Pyroluria, What To Do About It, How Much To Take, and Afterthoughts. To download the complete article, go to <http://www.health-science-spirit.com>.

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Vaccines as an Autism Trigger: A TB Link?

While it can't be said categorically that vaccines trigger autism, it can't be denied that many vaccines still contain toxic mercury compounds as well as animal and human components which may be contaminated with tuberculosis mycobacteria, with deleterious effects.

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At present, the cause of autism and its related spectrum disorders is unknown. Many hypotheses regarding what causes autism have been and will continue to be put forth, but only one will prevail: its true cause. A conversation as to whether vaccines trigger autism cannot be made in a vacuum but, rather, must be weighed against certain epidemiologic, scientific and historic considerations because its complexity is too great.

California Department of Developmental Services, Sacramento, 1999

California, in 1999, had been on high alert for some time. Level-one autism, without any of its "spectrum", went from almost 5,000 cases in late summer 1993 to an estimated 20,377 cases by December 2002. As California's Department of Developmental Services stood by incredulously, it witnessed a tripling of California's autism rate and all but 15 per cent of cases were in children.

California wasn't alone, but its autism rates had become the fastest-growing group in that state's developmental disability system and a number of Bay Area school districts were forced to fill entire classes with youths with different forms of autism.

But even in the midst of California's mini-epidemic, its Santa Clara County seemed particularly singled out. The California Department of Social Services' aid, brokered by the San Andreas Regional Center, staggered to its breaking point, and its forecast for autism in Santa Clara wasn't good.

What was behind this epidemic? A major clue, overlooked from a critical standpoint, was contained in the timeline of the department's own 1999 autism report¹ which concluded that the disease had increased dramatically between 1987 and 1998. What had happened in California in and around 1987 that could have sown the surplus of autism that California now reaped?

Division of Communicable Disease Control, Sacramento, California, 1999

While autism exploded in California, there was also, beginning in 1987, a major spike in the number of tuberculosis cases reported by the Tuberculosis Control Branch of California's Division of Communicable Disease Control. There, division head Dr Sarah Royce proclaimed a tuberculosis (TB) epidemic in California. The epidemic peaked in 1992, had the same male preponderance as autism, and took off at precisely the same moment in time.

California's TB epidemic was claimed to have peaked well before 1999, but this didn't stop it from continuing to contribute the greatest number of cases to the nation's total tuberculosis morbidity.² But, as with autism, the problem was worldwide, and even the World Health Organization, traditionally slow to react, had declared a global tuberculosis emergency six years earlier.³

Among children, brain-seeking central nervous system tuberculosis is common in a disease that kills more children each year than any other, with the potential to cause in survivors a withdrawal from social interaction, among other things, in its devastating wake.⁴

It had to be more than a coincidence, therefore, that since the 1980s California experienced a dramatic increase in the number of children diagnosed with autism as well.

Santa Clara County, California, March 2006

If California was experiencing autistic tremors, then surely its Santa Clara County was at the epicentre. By 2006, Santa Clara had some of the highest rates for autism in the entire USA. Although this was for unknown reasons, again the question became: why Santa Clara? The answer pointed in a similar direction.

By 2002, it had become apparent that tuberculosis was on the rise in Santa Clara. By 2006, that county had the

highest number of new TB cases in California. A news report of 2014 mentioned that Santa Clara now has "more tuberculosis cases than most US states".⁵ At the same time, the immigrant share of the population in Santa Clara County, mostly from countries where TB is endemic, is at its highest point since 1870.⁶

Santa Clara's Health Department sounded the alarm. Santa Clara now knew that it had two problems on its hands. Its medically trained psychiatrists, doctors, personnel and statisticians just never stopped to think that the two problems might be related.

Centers for Disease Control and Prevention, Atlanta, Georgia, September 2008

Time passed. More information came in.

In September 2008, the Centers for Disease Control and Prevention (CDC) published a study⁷ by lead author, paediatrician and researcher Dr Laura J. Christie of the California Department of Public Health entitled "Diagnostic Challenges of Central Nervous System Tuberculosis". Christie and colleagues identified 20 cases of unexplained encephalitis referred to the California Encephalitis Project that were indeed tubercular. The team importantly began with this significant statement: "Tuberculosis (TB) of the central nervous system (CNS)" as thought of by physicians "is classically described as meningitis. However, altered mental status, including encephalitis, is within the spectrum of [its] clinical manifestations."

In most of the 20 cases, the California Encephalitis Project cultured out tuberculous encephalitis, the same tuberculosis considered the least likely cause for encephalitis. Yet there it was. But, as Christie pointed out, as little as 25 per cent of patients with a diagnosis of CNS TB actually cultured out TB, which was a criterion for this particular study. That means that only a quarter of possible cases were confirmed.

Subcommittee on Human Rights and Wellness, Washington, DC, September 2004

The following excerpts are from the transcript of the "Hearing before the Subcommittee on Human Rights and Wellness of the Committee on Government Reform, House of Representatives, One Hundred Eighth Congress, Second Session, September 8, 2004".⁸

[The Subcommittee's Chairman, Congressman Dan Burton (R-Indiana), is thanking Dr Melinda Wharton, Acting Deputy Director of the National Immunization Program, Centers for Disease Control and Prevention, for her opening testimony.]

Mr Burton: Thank you for your testimony. Everybody knows the value of vaccinations. And every time you testify, you tell us how valuable they've been. And we already know that.

We're not here to say that vaccinations aren't important. They're very important. They've given us the highest quality of life of any civilization in the history of mankind. That isn't what we're talking about. We're talking about why they're putting mercury in vaccinations and why it's never been tested since 1929 when Lilly developed it.

[Congressman Burton turns his attention to Dr William Egan, the Acting Director of the Office of Vaccines Research and Review, Center for Biologics Evaluation and Research, Food and Drug Administration (FDA).]

Mr Burton: Has thimerosal ever really been tested? Has thimerosal ever been tested by our health agencies?

Mr Egan: Only in those early tests that you know of that were done by Lilly.

Mr Burton: When was that? That was done in 1929. Let's follow-up on that. In 1929, they tested this on 27 people that were dying of meningitis. All of those people died of meningitis, so they said there was no correlation between their death and the mercury in the vaccines. That is the only test that's ever been done on thimerosal that I know of. Can you think of any other?

Mr Egan: No, in people, no. Except for accidental exposures over time.

Mr Burton: So we have mercury that's being put into people's bodies in the form of this preservative, and has been since the 1930s, and it's never been tested by our health agencies. And yet you folks come here and you testify that there's no conclusive evidence, and the IOM [Institute of Medicine] says, they favor, get this, they don't say they're sure, they say they favor rejection of a causal relationship between mercury and autism and other neurological disorders. Nobody ever gives a categorical statement, that no, mercury does not cause this, no, it doesn't. And that's because you can't do it..

Mr Egan: We are diligently working, as we have testified today and previously, toward eliminating thimerosal mercury from vaccines as quickly as can be done. But there are many issues that are involved in doing this. If we were to say tomorrow that all vaccines, for example, all flu vaccines could only be administered in single dose syringes or single dose vials [thus eliminating the need for thimerosal], the capacity to fill those does not exist.



Congressman Dan Burton, Chairman of the Hearing before the Subcommittee on Human Rights and Wellness, 8 September 2004

Mr Burton: OK. Now, my grandson got nine shots in one day, seven of which contained mercury. So if he got the very small amount, he'd be getting maybe nine micrograms, right?

Mr Egan: No, much less than that. Because the maximum that we calculate that a child could receive now during the first six months of life is somewhat less than three. A number of these vaccines [have] defined trace as less than one, some of them have considerably less than one.

Mr Burton: But that amount of mercury would not do any neurological damage to anybody?

Mr Egan: Not according to any guideline.

Mr Burton: No, no, no, no. I want you to say yes or no.

Mr Egan: I do not believe so.

Mr Burton: You do not believe so. I didn't say believe. Can you say to me right now that amount of mercury being injected into a baby will not hurt it?

Mr Egan: It's impossible to make those categorical statements with 100 percent---

Mr Burton: That's right. So it is possible that the amount of mercury that's being injected, even in trace amounts, could damage a child neurologically, right?

Mr Egan: I don't think it has that capacity, no. We can argue.

Mr Burton: I know, but you don't think it is, but you can't say categorically, can you?

Mr Egan: Do I have evidence for every single child, for every possible dose, the answer is no.

As it turns out, the doses of thimerosal referenced in micrograms cited by Egan were small change compared to what is in certain current multidose flu shots.⁹ The CDC's 2014-2015 guidelines for eligible child influenza vaccinations advise: "To protect their health, all children 6 months and older should be vaccinated against the flu each year."¹⁰ With some multidose influenza preparations containing as high as 25 micrograms per dose of thimerosal or higher, this can add up to a lot of thimerosal. And on top of this, concurrently, the CDC still insists: "Pregnant? Get a Flu Shot!"¹¹

Congressman Burton had established, as of 2004, that the only study ever done to conclude that thimerosal was not neurotoxic or could not precipitate the first signs and symptoms of autism was done by its manufacturer, Ely Lilly, in 1929—a study in which 22 meningitis patients (not 27, as Congressman Burton mentioned) in an Indianapolis epidemic were treated with thimerosal, all of whom died.

Lilly showcased and funded the study for one reason and one reason only: its scientist Smithburn, the study's lead author, out of the sheer desperation of having nothing with which to cure his patients, had injected 22 of those patients dying of meningitis with large doses of thimerosal (up to 10 milligrams per kilogram intravenously) with

supposedly no significantly grave consequences.¹²

That is, no grave consequences other than the fact that seven out of 22 of Smithburn's patients died within one day after receiving the thimerosal. Only one patient made it to day 62 before succumbing—hardly enough of a window to investigate for chronic mercury damage from the thimerosal. Nevertheless, Lilly would next try to turn a lemon into an orange, sponsoring other scientists¹³ to say that the thimerosal had nothing to do with the deaths of Smithburn's meningitis patients.

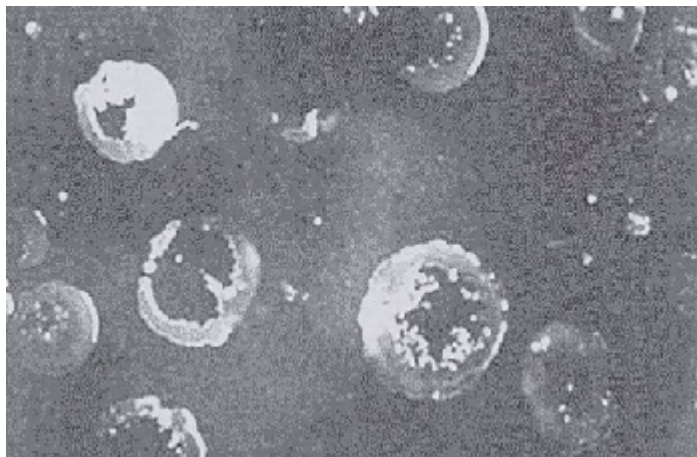
Unknown to either Burton or Egan, there was one other study testing a mercury compound on humans—a sizeable series which also appeared in the same publication, *The Journal of the American Medical Association* (JAMA), which had published the Lilly study. Hartz¹⁴, looking for a cure for his chronic TB patients, concluded that his trial with a mercury compound was "positively injurious and detrimental to one afflicted with tuberculosis".

Of the 14 patients to whom Hartz administered six or more injections (consisting of 1/5 gram or 13-milligram doses every second day), 12 died within from two weeks to six months after their last injection. Hartz was only using a small fraction of what Smithburn had used, yet his results for those on the receiving end of multiple injections of the mercury compound were disastrous. Hartz wrote:¹⁵

"This enormous percentage of deaths, namely, 85.7 per cent, among those [TB] patients who received six or more injections [of mercury], can be attributed only to the use of mercury, simply from the fact that the expectation of life in many of the cases chosen was very favorable indeed. In fact, on account of the age of the patients and the chronic arrested type of the disease, they were the kind of patients who live long and have a favorable prognosis."

Also unknown to the scientists and the congressman present at the hearing was that although the 1929 Lilly investigators purportedly had an epidemic of meningococcal meningitis on their hands, as the epidemic wore on they were considering it as having originated as a mixed infection with an underlying tubercular infection—making the Hartz and Lilly publications have more in common than might at first meet the eye. It was an era when *Mycobacterium tuberculosis* and *Neisseria meningitidis* (the meningococcus) were the two most common causative organisms responsible for meningitis.¹⁶ And to this day, TB meningitis is in the differential rule-out for meningococcal meningitis.¹⁷

In back-to-back studies of the Indianapolis outbreak of 1929, Smithburn, present in the initial investigation, left the second-phase probe to Kempf, Gilman and Zervas.¹⁸ Both publications showed how anti-meningococcal serums were of little or no use for the Indianapolis outbreak—an unexpected finding for a meningococcal meningitis epidemic.



Caption: Figure 1: One of the stealth, viral-like forms of "cell-wall-deficient" atypical tuberculosis colonies that grew from the brain of a child who expired from the disease. Such forms of tuberculosis are extremely difficult to detect and require special stains and culture media not used routinely in today's laboratories. (Source: Korsak, T., *Acta Tuberc. Pneumol. Belg.* 1975; 66[6]:445-469)

The actual genesis of meningococcal disease was and still is not fully understood. Meningococcus colonises large numbers in the general population harmlessly, with only a very small percentage of individuals having serious illness from it—notably in the limbs and the brain. Front and centre in the follow-up study done by Smithburn's colleagues was a mysterious "micrococcus" found in both phases of the Indianapolis outbreak. Just prior to Lilly's publications, a similar micrococcus was uncovered by Sweany¹⁹, also published in JAMA, and subsequently by Mellon and Fisher²⁰ in *The Journal of Infectious Diseases*. But both Sweany and Mellon's micrococcus proved to be a (pleomorphic) form of cell-wall-deficient (CWD) tuberculosis (see figure 1 for an example of CWD TB). According to Kempf *et al.*²¹

"The fact that the meningococcus could not be recovered from the blood, spinal fluid or nasopharynx does not necessarily mean that it was not there. However, it (the mysterious micrococcus) was readily recovered from the few meningococcal [meningococcal] cases that we have observed during the last few months and during the first and second years of this epidemic. One might expect to find an organism of this nature in traumatic meningitis or as a complication in tuberculosis..."

As he left the congressional hearing, very much on Congressman Dan Burton's mind, after having grilled the FDA's Dr William Egan, was that despite promises time and again to remove mercury from vaccines it never seemed to happen.

Uncommon Valour

"My name is William Thompson. I am a Senior Scientist with the Centers for Disease Control and Prevention, where I have worked since 1998. I regret that my coauthors and I omitted statistically significant information in our 2004 article published in the journal *Pediatrics*. The omitted data suggested that African American males who received the MMR vaccine before age 36 months were at increased risk for autism. Decisions were made regarding which findings to report after the data were collected, and I believe that the final study protocol was not followed."²²

On 27 August 2014, CDC scientist Dr William Thompson spoke out, admitting that he had co-authored a study²³ which purposely cooked the data to avoid showing that African-American infants and toddlers given the MMR (measles, mumps, rubella) vaccine before 36 months of age were at a 340 per cent increased risk for coming down with autism. At the time of the study, and for a decade after, Thompson was silenced— but troubled. This was no average witness; this was a man who knew the intricacies of the study and the original data obtained like the back of his hand.

Obviously, the CDC's doctored 2004 study was an attempt to clear the MMR vaccine of troublesome implications—an attempt to give the vaccine a clean bill of health. But if the study's purpose was to examine honestly the possibility of a causal relationship between the MMR vaccine and autism, it failed miserably.

After Thompson came out, the CDC's Director of Immunization Safety and Thompson's co-author, Dr Frank DeStefano, defended the study as originally published. But Thompson was already on record. Thompson believed that the removal of some of the study's subjects because of the lack of a Georgia birth certificate not only went against the original study protocol, but, by reducing the study size by 41 per cent, obscured the strong statistical association between the timing of the MMR vaccination and the appearance of autism in African-American male toddlers. DeStefano was lead investigator in the 2004 paper. Subsequently, DeStefano had a telephone interview with investigative reporter Sharyl Attkisson.²⁴ Here are a few verbatim excerpts from their exchange:

Attkisson: Were you aware of any of his (whistleblower William Thompson's) concerns of, you know, have you been aware before today of any of his concerns about this?

DeStefano: Uh, uh, yeah, I mean I've continued to see, uh, uh, see him for over the past ten years and we've interacted fairly frequently, and, uh, uh, no I wasn't aware of this.

Attkisson: So whoever he raised his concerns to, he didn't, he didn't raise it to you or anybody you knew of?

DeStefano: No, I mean the last time I saw him was probably about two months ago, and he didn't mention anything about this.

[Ms Attkisson turns up the heat, relating to lead author DeStefano, that she thought that leaving out anything in the results of the study, especially through a birth certificate criterion which went against the study's protocol, didn't seem appropriate. It was also hiding the true conclusion of the study, which otherwise found a 340 per cent increase in autism in black children given the MMR before 36 months.]

Attkisson: I still think it would be pretty important to know.

[DeStefano's reply below apparently was his way of deflecting Attkisson's probing comment by saying that autism probably developed in the womb before 36 months anyway and that somehow this meant that an MMR vaccination given before 36 months was already too late for the vaccine to cause or precipitate the first signs of autism.]

DeStefano: No, I mean, I think, you know, the other, the other important consideration here is looking at what, what time period were talking about. Were, you know, autism, as you probably are aware, is a condition that really probably has its start while the child is still in the womb. And, you know, it doesn't, some of the behaviors and such don't come apparent, become apparent until maybe the child is one, two, three years old. But, uh, uh, what we know about autism that, uh, the, uh, characteristics or behavioral signs do become apparent, you know, apparent by 24 months of age, so. So we had different cut-offs, before 18 months of age, there was no difference in, in any group in terms of, uh, vaccination levels, between the cases and controls. At 24 months of age, when, uh, au—you know—behaviors of autism or some features of autism become apparent, there was no difference between the, uh, cases and controls in any group, it was at 36 months where there was a slight difference—and the difference was, we

re talking about a difference between 93% versus 91%, not a, a big difference. But, so that's at 36 months. And at 36 months, an exposure around that time period is just not biologically plausible to have a uh, uh, a causal association with autism. I mean autism would've already started by then.

Attkisson: Let me just, let me just interrupt, before I lose that thought. So you already made up your mind regardless of what the stats show that if it, certain things show that it didn't make sense, you wouldn't, you would try to find out a way to.

DeStefano: No, that's not what we said. I'm just saying, you know, you interpret, you interpret findings, also, you know, there's the statistics, then you have to also interpret, bring in things like biological plausibility, how do you interpret these results? So I think we had pretty strong evidence that these results at 36 months were primarily a reflection of requirements to attend early intervention special education programs for the, for the children with autism.

Attkisson: Is there any possibility that it is biologically plausible and you just haven't, you know, that that's, the consensus is that it's not, among you guys, but that it is and you're overlooking that?

DeStefano: I'm, I'm not aware of any data that would say, you know, that would s-, you know, that would say that, uh, you would have, um, onset of autism after 36 months. (End of excerpts.)

Granted DeStefano's remark that "autism, as you probably are aware, is a condition that really probably has its start while the child is still in the womb", which many believe, what did this have to do with a vaccine like MMR exacerbating or bringing on the first signs or symptoms of an autism, perhaps from chronic infection first acquired in the womb—even if the vaccination was given just before 36 months of age? Moreover, now that the real results of the 2004 autism-vaccine study were revealed, why did they show a 340 per cent increase in young black children given the MMR before age 36 months? Autism is certainly not more prevalent in African-American children than in whites. In fact, the rates of autism in black children are considerably less.²⁵

Sir William Osler, co-founder of Johns Hopkins Hospital and frequently described as the Father of Modern Medicine, mentioned that "a quiescent malady" such as congenital syphilis and tuberculosis "may be lighted into activity by vaccination".²⁶ So, perhaps the differential with the MMR might lie in the racial differential in one of the diseases which Osler mentioned. The CDC's own statistics, for example, show that the percentage of tuberculosis in blacks is way out of proportion to their percentage in the US population, with TB rates being seven times higher in blacks than in whites.²⁷

The MMR, then, could very well be acting adversely in the fashion described by Osler through statistical evidence alone—but there was much, much more.

Exhibit 1: Known Contents of the MMR Vaccine

Of all the issues of concern regarding a vaccination-autism link, one of the most prominent is, according to Sugarman²⁸, the continued use of thimerosal in certain influenza shots, especially the widely used and economical multidose influenza vials through which many patients can be vaccinated using the same vial of influenza vaccine. Most of the legal battles over vaccines and autism, Sugarman mentions, have alleged that the first signs and symptoms of autism were precipitated by this mercury-containing preservative, which used to be an ingredient in many childhood vaccines and still is found in some of the multidose flu shots used by paediatricians.

Others have argued that the culprit is the measles, mumps and rubella vaccine (MMR) or perhaps MMR in combination with thimerosal. Yet in many other autistic cases, a direct causal link is not there for either. Nevertheless, the thought lingers that these agents as well as other vaccines could, in certain cases, still trigger the first signs and symptoms of autism. In the meantime, the lay term pointing to "toxins" in the vaccines is inadequate.

Whenever one deals with biologicals originating from the cow, the calf, the chicken, the chicken embryo, the swine or from another human in the form of albumen or a foetal cell line—all found in the MMR—one hits upon the potential of such biologicals used in the vaccine bearing or being contaminated by mycobacterial infection. This holds particularly true of a vaccine like MMR, whose components can potentially carry *Mycobacterium tuberculosis* from human fluids or tissue, *Mycobacterium avium* from poultry (a subspecies of which is *Mycobacterium paratuberculosis*) or *Mycobacterium bovis* from cows or the foetal tissue of cows. And in this case, we are not talking about mere environmental exposure: we are talking about direct injection through vaccination.

To say that the US Department of Health and Human Services' Food and Drug Administration is aware of this is a stark understatement. One just need download its "Guidance for Industry"²⁹ for viral vaccines—a 50-page paper—each page carefully framed under the heading "Contains Nonbinding Recommendations". In such a "Guidance for Industry", the words and warnings for human *Mycobacterium tuberculosis* as well as mycobacteria from animal sources are scattered throughout.

CDC Mandatory Vaccine Schedule 1983 vs 2010
Children Birth to 6 Years (recommended months)

USA 1983	USA 2010
DTP (2)	Influenza (various)
OPV (2)	Hep E (Birth)
DTP (4)	Hep B (1)
OPV (4)	DTaP (2)
DTP (6)	MM (2)
MMR (1)	IPV (2)
DTP (8)	PCV (2)
OPV (8)	Rotavirus (2)
DTaP (4)	DTaP (4)
OPV (4)	MM (4)
Total: 80	IPV (4)
	PCV (4)
	Rotavirus (4)
	Hep B (6)
	DTaP (6)
	MM (6)
	IPV (6)
	PCV (6)
	Influenza (6)
	Rotavirus (6)
	MM (12)
	MMR (12)
	Vaccinia (12)
	PCV (12)
	Hep A (12)
	DTaP (12)
	Hep A (18)
	Influenza (18)
	PPSV (24 - if high risk)
	MCV (24 - if high risk)
	Influenza (24)
	Influenza (42)
	MMR (48)
	DTaP (48)
	Vaccinia (48)
	IPV (48)
	Influenza (54)
	Influenza (66)
	TOTAL: 36-38

DrMamma.org

The MMR vaccine is generally administered to children around the age of one year (12 months), with a second dose before starting school (i.e., at age 4-5).

MMR is front-loaded with such entities as foetal bovine serum (FBS). Foetal bovine serum or foetal calf serum is the blood fraction remaining after the natural coagulation of blood, followed by centrifugation to remove any remaining red blood cells. FBS comes from the blood drawn from a bovine foetus via a closed system of collection at the slaughterhouse.³⁰

This presents a problem.

Johne was the first to report a case of congenital TB in animals, his specimen consisting of the very same bovine foetus.³¹ Macroscopically though, he noted, the uterus and placenta of the pregnant cow were normal.

Autism has already been linked to be triggered in certain cases by an atypical tuberculosis called *paratuberculosis*, frequently found in cattle.³² A critical review found that this same form of tuberculosis can infect bovine cow foetuses about nine per cent of the time when the bovine mother has subclinical disease, and an average of 39 per cent of cow foetuses in cases where the expectant cow shows signs of clinical paratubercular disease.³³

Industry Turns a Blind Eye

Once the most prevalent infectious disease of cattle in the US, yet today largely ignored and purportedly no longer nearly the problem it once was, bovine TB caused more losses among US farm animals in the early part of the 20th century than all other infectious diseases combined.³⁴

By 1917, the situation had become so grave in hogs and cattle that the Cooperative State-Federal Tuberculosis Eradication Program, administered by the US Department of Agriculture (USDA) and the Animal and Plant Health Inspection Service (APHIS), had to be instituted. For in 1917, it was estimated that 25 per cent of deaths from tuberculosis in adult humans were caused by animal tuberculosis.³⁵

Although it is claimed that in the United States TB "once was" a common disease of farm poultry flocks, cattle, swine and people, this author remains unimpressed with present governmental agency attempts to diagnose both the bacilli and, moreover, their predominant cell-wall-deficient forms.

As another strategy to hide the true incidence of TB, our domestic animals and poultry are often killed young before the onset of tubercular disease becomes obvious.³⁶ Furthermore, most inspection is done visually.

In the meantime, the USDA continues to downplay and ignore the actual incidence of TB not only in cows and their milk (especially with regard to paratuberculosis) but in poultry and eggs. For example, when forced to address the issue of finding paratuberculosis in containers of milk, the USDA initiated a study in 1998, but first used methods like freezing and ultrasound to damage the very mycobacteria being tested for, and then ignored established

techniques to isolate mycobacteria related to TB, growing samples on a culture medium which was considered inadequate—and for not nearly a long enough time.^{37, 38} Not surprisingly, the USDA results in that study were all negative.

MMR vaccine also contains WI-38 human lung fibroblasts. A fibroblast is the most common type of cell found in our connective tissue. Although no study has addressed the possibility of mycobacteria contaminating such fibroblasts, Higuchi *et al.* in 2002 found that the all too common and dangerous strain of tuberculosis H37Rv can invade and grow in a WI-38 foetal cell line quite efficiently.³⁹

Actually, WI-38 is a human cell culture line composed of fibroblasts which were derived from the lung tissue of a three-month-old white female foetus. It is commercially known as "WI-38 (ATCC® CCL-75™)". First sequestered by Hayflick and Moorhead⁴⁰ in the 1960s, WI-38 has been used ever since in the production of many of our vaccines.

Finally, in the MMR we have the chick embryo cell culture used to propagate the mumps and rubella (German measles) viruses.

Although authorities seem totally unconcerned today, Hull⁴¹, Trylich⁴² and Romanenko⁴³ all certainly saw the danger of tuberculosis from tubercular hens getting into embryonated chicken eggs.

Chick embryo cell cultures also consist of hydrolysed gelatin as well as human albumen. Hydrolysed gelatin is the hydrolysed connective tissue from an animal— usually from the skin and bones of an animal, generally a pig. The process involves adding enzymes which break down the proteins. It separates the proteins along hydrogen bonds. Then the foetal calf serum from the blood drawn from a bovine foetus through a closed system at a slaughterhouse is also added.

Against all of this you have the antibiotic neomycin added to the MMR in an attempt to contend with any unknown mycobacterial content in the vaccine—which neomycin by itself is totally unequipped to do.

Almost lost in the package insert of Merck's popular MMR II vaccine is the admission that no studies have been reported to date of the effect of the measles virus vaccine in the MMR on untreated tuberculous children: "However, individuals with active untreated tuberculosis should not be vaccinated."⁴⁴ Although infants and children are "individuals", so difficult is it to isolate TB in them that some paediatric experts recommend a spinal tap in all children under 12 months of age.⁴⁵ Yet it is specifically at 12 months of age that mandatory MMR vaccination first cuts in.

The Science of Denial

"They believe that TB is an extinct disease. I don't know why."⁴⁶ So said Mario Raviglione, MD, infectious diseases specialist and Director of the World Health Organization's Global Tuberculosis Programme about a disease which WHO admits infects a third of the world.

While frontal assaults on thimerosal, the MMR vaccine and the overburdened vaccine schedule have justifiably sprung up, a satisfactory and comprehensive explanation as to why and how vaccines might trigger autism has not.

In a 2013 interview, Mel Spigelman, MD, President and CEO of the TB Alliance, a nonprofit TB drug research group based in New York, said of tuberculosis: "It's still in the US, we just don't recognize it."⁴⁷ Perhaps this is because we just don't want to recognise it—in ourselves, in our livestock, in the products from our livestock, and in the biologicals used in our vaccine manufacture. But it won't let us *not* recognise it.

Meanwhile, we have with tuberculosis one of the few diseases that could possibly account for the soaring rate of autism—a disease which is not only the most common cause of infectious death in children⁴⁸ but, according to WHO, in their child-bearing mothers aged 15-44, one million of whom die from it each year⁴⁹; a disease which is extremely neurotropic (nerve-seeking) and remains, worldwide, the most common type of central nervous system infection, particularly among children⁵⁰; and a disease in which 20-25 per cent of such children can manifest mental retardation as well as other anomalies often associated with neurodevelopmental disorders and the autistic spectrum.⁵¹

By 2007, Rzhetsky, in a proof-of-concept biostatistical analysis of 1.5 million patient records, had found significant genetic overlap in victims of autism and those with TB.⁵²

No one who has done a serious study of the literature, old and new, can doubt for a second that the incidence and transfer of maternal tuberculosis, even when there are no maternal symptoms and the disease is latent, are being grossly underestimated. This has been duly noted in recent publications, but more in depth in the past writings and solid research of Charles C. Norris, Pennsylvania physician, gynaecologist, obstetrician and medical investigator. Norris wrote:⁵³

"Pregnancy is prone to light up a latent or chronic tuberculosis, and thus produce a condition in which a bacillemia [blood-borne infection] is likely to be present. Secondary infection and metastasis [by TB] occur in the placenta in

the same manner in which they affect other portions of the body."

"Baumgarten's theory...has done much to show that congenital tuberculosis may occur, and that tubercle bacilli may remain latent in the child for quite prolonged periods. It has been shown that the tubercle bacillus may remain latent for some time. Under such circumstances congenital tuberculosis is probably mistaken for, and classified as, a postnatal infection [of childhood]."

"Undoubtedly the strong uterine contractions incident to labor constitute a most important factor in the transmission of tubercle bacilli at the end of pregnancy. Organisms that, prior to the onset of labor, were lodged in the placenta or in the intervillous spaces, may, as the result of these contractions, be forced into the fetal circulation. Schlimpert, Schmorl and Geipel, Warthin and Cowie, Dardeleben, and others are very insistent on this point."

Thus, throughout the first half of the 20th century, the method of choice for an expectant mother with proven TB—if it was found—was early termination of pregnancy.⁵⁴

Others, like Norris, also saw the possibility of maternal-foetal transfer of even non-symptomatic TB as not uncommon.⁵⁵⁻⁵⁹ Dr Henry William Welch, often called the Dean of American Medicine and a colleague of Osler at Johns Hopkins, was already on record as saying that the mere inability to pick up TB in the foetus or newborn wasn't an argument against frequent transmission to them.⁶⁰ There were just too many factors involved, such as the hostile, low-oxygen environment of foetal blood, which could tame even the most virulent TB bacilli into dormant forms for some time, making diagnosis difficult to impossible. The history of associating what we presently call "autism" with tuberculosis is an old one, going back to John Langdon Down, a subset of whose young patients clearly were the first cases of "autism" on record. Such associations persist.⁶¹⁻⁶³

While a blanket statement that vaccinations cause autism cannot be supported, the assertion that certain vaccines can aggravate and precipitate the first signs of an autism originating from chronic disease cannot be denied. A vaccine or group of vaccinations could trigger autism simply by inadvertently introducing, through their human, animal and poultry components, mycobacterial elements into the mother, foetus or young child. Mixed tubercular infection in man with human and fowl TB isn't a new discovery: Tsukamura and Mizuno⁶⁴ found it rather commonly in their 1981 study. Once introduced, one tubercular form can potentiate and make more virulent an existing tubercular infection.

Another way in which vaccine components can trigger autism was laid out by Hartz in his JAMA probe regarding how mercury compounds like thimerosal activate and make much worse an existing tubercular infection.

Finally, in vaccinations there are adjuvant oils or lipids, many of which do not have to be reported, used to increase a vaccine's potency. Such oils or lipids are cholesterol precursors, becoming cholesterol in the body.⁶⁵ Such a cholesterol surge is a big boost for any dormant systemic tuberculosis already in the body, whose very ability to maintain infection is linked to its ability to acquire and utilise cholesterol. So crucial is this unique ability of TB to use cholesterol in the body for both carbon and energy sources that if it were not for its ability to consume cholesterol, tuberculosis, unlike other pathogens, would be unable to resist eradication through cytokine attack and the attempts of certain activated white blood cells called macrophages to starve it of essential nutrients.⁶⁶

In comparative and simpler terms, one might look at an injection of certain vaccine oil or lipid adjuvants, squalene among them, whether inside or outside of a vaccination, as lighting up chronic foci of tuberculosis like a Christmas tree; or, in the words of Sir William Osler, chronic tuberculosis "may be lighted into activity by vaccination"—for a few reasons, key to why vaccines, in certain cases, can trigger what a child's parents clearly see as the first signs of autism in their toddler.

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Pennsylvania internist and medical researcher Lawrence Broxmeyer, MD, was on the staff at NY affiliates of Downstate, Cornell and NYU for 14 years. He was the originator and lead author of a novel way to kill AIDS mycobacteria (*J. Infectious Diseases* 2002; 186[8]:1155-60). His ideas on phagotherapy are still in use today. He contributed a chapter to the textbook *Patho-Biotechnology* (Landes Bioscience, 2008). His peer-reviewed articles are on PubMed. He is the author of several books including *AIDS: What the Discoverers of HIV Have Never Admitted* (new edition, July 2014; see review in 20/01) and *Autism: An Ancient Foe Becomes a Modern Scourge* (2012). He has had several articles published in NEXUS: "Ebola...or African Strains of Tuberculosis" (22/01); "Influenza and the TB Connection" (19/01-02); and "The Untold Truth About Cancer" (17/01-02).

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Editor's Note:

Due to space constraints, we're unable to include the endnotes accompanying this article. To see these, visit the website <http://lawrencebroxmeyermd.org/>

New Findings at the Bosnian Pyramids Complex

Part 2 of 2

A lull in solar cosmic-ray intensity after 34,000 years before present may have given the ice-age people of Bosnia time to build pyramids and tunnel networks ahead of the next rise in cosmic radiation and ensure their future survival underground.

by Paul A. LaViolette, PhD
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Speculation on the Energy Beams

Another possibility that has been suggested is that these pyramid energy beams might be communication beams of some kind. When the ultrasonic beam of the Pyramid of the Sun is electronically converted to bring its signal down to the audible frequency range, its modulations sound to many people as though some sort of intelligible information is being conveyed.

One other idea to add is that perhaps the builders of the Pyramid of the Sun enabled the generation of these energy beams to call attention to their pyramid structure so that future generations might be notified of its presence and not think that it is merely a mountain, as many archaeologists persist in believing. Perhaps they knew that one day it would be covered by flood deposits and needed to incorporate a marker beacon.

8) Now, here is some further food for thought to throw into the mill as another possible explanation for how these energy beams are generated. The Pyramid of the Sun is underlain by a conglomerate rock layer that extends for kilometres into the surrounding land area where it is found to be permeated by a labyrinth of tunnels dug in prehistoric times. This conglomerate material has been found to contain *quartzite* as one of its main rock components. Quartzite is a metamorphic rock formed when quartz-rich sandstone or chert has been exposed to high temperatures. Like quartz, it is *piezoelectric*, meaning that it will generate electric fields if vibrationally excited. This principle is used to keep the second hand ticking accurately in your wristwatch.

Quartzite grains or rocks have natural resonant frequencies that range from a few kilohertz (kHz) up to many megahertz, depending on their size; the larger the rock, the lower its resonant frequency. For example, in the case of quartz, a crystal with a thickness of 10 centimetres will naturally resonate at 28 kHz. Knowing that the wavelength of an ultrasonic wave is calculated as its sound speed divided by its frequency, and knowing that the speed of sound in concrete is 3,400 metres per second (about 10 times the speed of sound in air), we find that this 28 kHz \pm 6 kHz frequency will produce a wave with a wavelength of 12 \pm 3 centimetres, approximating the dimensions of the oscillating quartzite pebbles. Just a coincidence? This means that the ultrasonic vibrations generated by the quartzite rocks will produce sound waves whose wavelength matches the dimensions of other quartzite rocks in the concrete, and hence the vibrations of the quartzite rocks will sympathetically reinforce one another, causing self-amplification of the resonant vibration.

This makes one wonder whether the ancient architectural plan to construct a pyramid encased in concrete made of embedded quartzite may have been purposefully done as a way of amplifying a resonance that was naturally present in quartzite rocks of the proper dimension. Moreover, because these quartzite rocks are piezoelectric, they will be producing an oscillating electromagnetic field of the same or similar frequency.

Of course, quartzite will have a somewhat different resonant frequency than the example given above for quartz, and this will depend on the impurities present in the rock. But, in general, the resonance will have a wavelength size that will centre around quartzite rock inclusions of about the size that are found in the concrete and conglomerate layers.

If the quartzite conglomerate making up the concrete encasement of the pyramid and also the underlying naturally present quartzite conglomerate layer are radiating ultrasonic and electromagnetic (EM) waves at this particular frequency, then the resulting EM wave component could conceivably be focused by the iron dish-shaped reflecting layer, which Dr Mizdrak has theorised might underlie the pyramid, and thereby be directed upwards towards the pyramid apex. So, actually, the detected EM energy beam may be deriving its energy ultimately from the pyramid's ultrasonic energy waves and their resonance with the quartzite in the rock conglomerate.

An ultrasonic wave component has also been discovered coming from the Vratnica tumulus, an artificial conical hill located five kilometres from the Pyramid of the Sun. It is 35 metres high and constructed of clay, concrete and bi-

layered artificially made megalithic blocks, some weighing as much as 24 tonnes.

Its ultrasonic beam is found to be much more discontinuous than that coming from the Pyramid of the Sun and is oriented far off from its centre.



Image 8: Dr Sam Osmanagich leads the way into the Ravne tunnel complex.

The signals have also been measured in the Ravne tunnel system (see image 8 above) adjacent to the Pyramid of the Sun, but the ultrasonic component there was very weak and was present only deep within the tunnel network. In addition, an infrasonic component was measured there in the 7-10 hertz (Hz) range, which corresponds to the 7.83 Hz fundamental frequency of the Schumann EM resonance.

Hydrophone recordings conducted in water pools within the Ravne tunnels showed the presence of ultrasonic oscillations at 24 kHz and one octave up at 48 kHz, whose amplitudes changed in a rhythmic manner. A 38-kHz frequency also appeared erratically. Interestingly, this is 14 kHz higher than the 24-kHz frequency, a difference which is half of the 28-kHz frequency reported to be coming from the Pyramid of the Sun. Researchers were getting too much environmental noise to be able to obtain reasonable ultrasonic measurements for the Pyramid of the Moon. There are plans to take hydrophone measurements there in the future.

In part one, I noted that scientists have estimated the EM beam to have a power of about 10 kilowatts. One source of this power may be natural seismic noise in the Earth, arising from movement of the Earth's tectonic plates and from ongoing mini seismic events. The piezoelectric quartzite in the pyramid and underlying conglomerate layer may be transducing these mechanical vibrations into ultrasonic and EM wave emissions. Seismic studies have found that the region around the pyramids is unusually quiet. Could the Pyramid of the Sun be acting as a seismic energy accumulator that dampens earthquake activity in its vicinity? An intriguing prospect!

Or is this energy sourced from the Schumann EM resonance that comes from all parts of the sky due to oscillation of the Earth's ionospheric layer? This Schumann frequency lies nowhere near the Pyramid of the Sun's 28-kHz resonance, but, interestingly, scientists have measured a 7.8-Hz signal in the EM signature coming from the pyramid. So, it is likely that it is somehow tied in with the resonance phenomenon that takes place there.

Of course, this theory is currently somewhat speculative, being based on a paucity of information. Research needs to be carried out to measure the actual speed of sound in the pyramid's concrete slabs and the resonance characteristics of the quartzite found in the concrete and in the natural conglomerate layer. But for those of you who have any doubts about this theory, I encourage you to come up with a better explanation. It is indeed a mystery that needs explaining.

9) Within a few kilometres of the Pyramid of the Sun is a vast system of tunnels, situated from five to 25 metres underground and excavated within a quartzite-rich conglomerate layer apparently deposited by an earlier flood. The main entrance to it was discovered 2.9 kilometres from the Pyramid of the Sun in the region known locally as Ravne. Some tunnels in this labyrinthine network extend underground for several kilometres and have branch tunnels that split off about every 20 metres or so. At intervals along its length, a tunnel widens into a room-like chamber from which other tunnels branch out. One such chamber that has a ceiling height of four metres serves as a hub for eight tunnel passages.

Ground radar indicates that the tunnel system being excavated will ultimately connect with chambers below the

pyramid. Dr Osmanagich thinks that within a few more years of excavation efforts, the archaeological team will be able to penetrate to the interior of the pyramid.

The tunnels were meticulously filled in with gravel and closed off by some civilisation that resided in that region during the present interglacial period. This sealing-off is believed to have occurred around 3,000 to 5,000 years ago. It is a mystery why these people were motivated to close off the tunnels. To do the job that was done would have involved an enormous amount of labour, hundreds of man-years of work.



Image 9: Dr Osmanagich shows a drywall sealing off a branching tunnel passage. (P. LaViolette © 2014)

The entrances to these branch passages are consistently blocked with "drywalls" made of large stones that have been carefully placed without the use of mortar (see images 9 and 10). Behind the drywalls, the tunnels are entirely filled with gravel similar to that which fills the main tunnels whose passages have been recently cleared and opened up in the ongoing archaeological dig effort. The gravel fill is of a loose consistency which makes it easy to distinguish from the more cohesive conglomerate material that forms the walls of the tunnels, thereby facilitating the excavation process.



Image 10: Close-up of a drywall barrier. (P. LaViolette © 2014)

The meticulous filling-in of the tunnels calls to mind the purposeful burial circa 8000 BP of the prehistoric temples found at Gobekli Tepe in southern Turkey and which themselves date back more than 11,500 years. In Bosnia, as in Gobekli Tepe, was the newer civilisation trying to hide and forget the past or was it trying to preserve the past for discovery in the future?

10) After examining the Ravne tunnel labyrinth during my tour in September, I became convinced that this ice-age Bosnian civilisation had excavated it to create an underground refuge space where its people could take shelter from episodes of elevated cosmic ray bombardment. Galactic superwave cosmic ray volleys and mega solar flare conflagrations recurrently plagued the Earth during the last ice age. This is substantiated not only by astronomical and geological evidence outlined in my papers and books (e.g., *Earth Under Fire*⁸) but also in the many legends of the burning of the Earth by the Sun that have been handed down from the past in cultures all over the world.

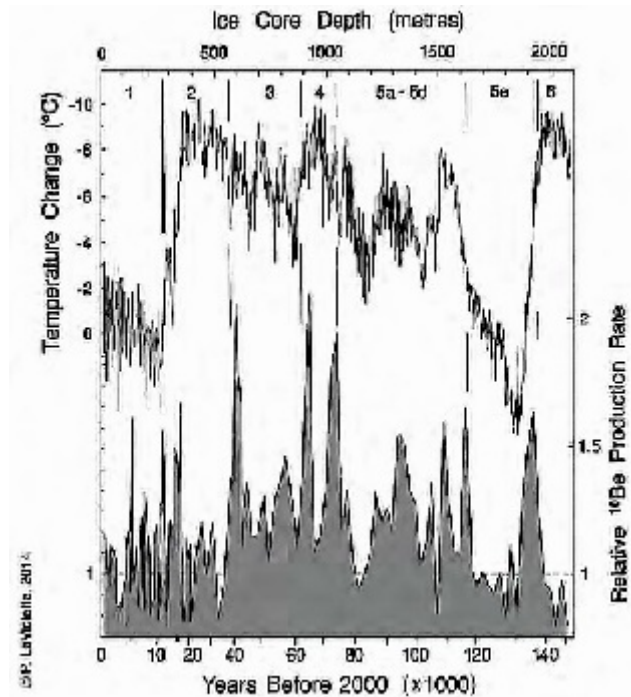


Image 11:

Lower graph - Relative beryllium-10 production rate in the Earth's atmosphere as an indicator of cosmic-ray intensity variations on the Earth's surface during the past 145,000 years. Based on the Vostok ice core data of Raisbeck *et al.* (1987), adjusted by P. LaViolette for variations in ice accumulation rate.

Upper graph - Global temperature based on Vostok ice-core deuterium isotope data. The numbered climatic zones include the present interglacial (1), the last ice age (2,3,4), a semiglaciated interval (5a-5d), the last interglacial (5e) and the previous glaciation (6).

The largest such cosmic ray event to occur prior to the time of the excavation of the Bosnian tunnels and the construction of the Pyramid of the Sun is that which transpired during the 6,000-year-long hazardous period which extended from 46,000 to 40,000 calendar years before present (BP). During this period, our planet experienced the largest galactic cosmic ray bombardment event of the last 50,000 years, seen in the Vostok, Antarctica, ice-core record as a beryllium-10 (Be-10 or ¹⁰Be) peak centred around 41,500 years BP, Be-10 being produced in the Earth's atmosphere by galactic cosmic rays (see image 11).

In my 1983 PhD dissertation⁹ and my 1987 journal paper¹⁰ I predicted that such peaks would be found in the ice record, and proposed that they should be associated with periods of increased solar flare activity. That is, I reasoned that upon its arrival a galactic superwave cosmic ray volley would propel cosmic dust into the solar system which in turn would be accreted by the Sun, aggravating it into a state of elevated solar activity.

Seventeen years after publication of the Vostok data, the Cariaco Basin extended radiocarbon record became available. Not surprisingly it was discovered that, during the period spanning this Be-10 spike, radiocarbon

concentration in the Earth's carbon reservoir increased more than sixfold.¹¹ The cause of this increase perplexed oceanographers because it was too large to be due to terrestrial effects such as changes in the intensity of the geomagnetic field.

Although oceanographers regularly interpreted smaller-scale rises as indications of increases in solar flare activity, they found it difficult to imagine that the Sun's flaring activity would rise so high and persist in this active state for so many millennia. Apparently they were not aware of the superwave theory.

Nevertheless, the data lead one to the inescapable conclusion that this radiocarbon increase was caused by *an extreme elevation in the intensity of cosmic ray radiation striking the Earth*. This could have been due to the impact of either superwave cosmic rays or solar flare cosmic rays associated with an extended period of high solar activity. At its height, this event was far more severe and prolonged than the super solar proton event that appears to have precipitated the megafaunal extinction at the end of the ice age, which had its greatest impact in North America and Europe.¹²

The idea that the Sun was overly active during the ice age has had some support from astronomers such as Thomas Gold and Herbert Zook who, four decades ago, based their conclusions on studies of lunar rocks. More recently, physicist Dr Anthony Peratt and his group have concluded that prehistoric petroglyphs found around the world depict auroral displays of mega solar storms.

In the midst of this solar cosmic ray conflagration, the Earth's geomagnetic field intensity became depressed to five per cent of its present-day value for a period of 1,500 years, around 42,300 to 40,800 calendar years BP; and during the last half of this magnetic-intensity low, the geomagnetic pole reversed for about 400 years.¹³ Geophysicists call this the *Laschamp geomagnetic reversal*.

The occurrence of a geomagnetic reversal during this period of high solar activity confirms my theory, put forth in 1983, that at times of extreme solar storms when the Earth's radiation belts become overly flooded with solar cosmic ray particles, these particles produce a powerful equatorial "ring current" which generates an opposing magnetic field that can be strong enough to cancel out the Earth's magnetic field and in extreme cases even cause a field reversal.^{14, 15} That the Laschamp reversal should occur at this time indicates that the solar cosmic ray bombardment that was causing this precipitous rise in radiocarbon concentration was indeed quite intense.

It is no wonder, then, that Neanderthals became extinct at this time. In my 1997 book *Earth Under Fire*, I conjectured that Neanderthal man had become extinct within a relatively short period of time at the height of this cosmic ray episode.¹⁶ Palaeontologists, however, had no idea in the mid-1990s that the Neanderthals might have been extinguished on a particular date by a cosmic cataclysm. They were generally of the opinion that the Neanderthals had died out gradually as a result of competition with humans, with some enclaves of the species living to times as recent as 20,000 to 30,000 years ago. It was only in 2014 that a study¹⁷ was published in *Nature*, indicating that these previous dates are erroneous and that Neanderthal man in fact became extinct on a particular date around 41,100 ± 1,000 calendar years BP (Cariaco-Hulu radiocarbon chronology) (see part one of this article). This date coincides in time with the Be-10 concentration peak and with the climax of the extended solar cosmic ray onslaught, thereby confirming my prediction.

It is also not a surprise that this newly found extinction date falls in the very midst of the Laschamp geomagnetic reversal, with its accompanying implication of extreme solar storm activity.

With the Earth's protective geomagnetic field at near zero intensity, cosmic rays would have reached the ground in full force and any hominids spending too much time outdoors away from their cave shelters would have received lethal radiation doses. The worst periods would have been at times when the geomagnetic field was undergoing its greatest longitudinal swings, indicating particularly high solar cosmic ray activity.

Homo sapiens also populated Europe for at least 5,000 years prior to this extinction event. Did they survive because they were more aware of the hazards of cosmic ray exposure?

Finding that the latest dating chronologies indicate that these unparalleled events all occurred around the same time, I then realised that the ancient Egyptians had preserved a record of this same very important date in their chronicles. The King List found in the ancient Egyptian Royal Papyrus of Turin states that the predynastic "reign of the gods" began 36,620 years before the time of Menes (~3050 BCE), which would be 41,670 years ago. Apparently, the ancient Egyptian priests were marking the passage of time forward from this very important hominid extinction date.

A catastrophic event also occurred at the beginning of this extended period of high solar activity: the extinction of Australia's mainland megafauna. About 90 per cent of Australia's ice-age mammals became extinct by around 46,000 years ago, including all marsupials exceeding a weight of 100 kilograms and 22 out of 38 species in the 10- to 100-kilogram range. Also, three large reptiles and three large flightless birds became extinct there.

In Tasmania, the mass extinction is dated as having occurred around 41,000 years ago, around the time of the Laschamp geomagnetic reversal.¹⁸ Archaeolinguist John McGovern, a member of Dr Peratt's group, has found

numerous Aboriginal petroglyphs in the Australian outback which date back over 40,000 years and make reference to the occurrence of a solar cataclysm.

If the Bosnian pyramid-builders received handed-down knowledge of such a horrible event in human history, then it is understandable why they would have gone to such extremes to excavate tunnels, thinking that a similar event was in the process of recurring.

After returning from my trip to Bosnia, I did further research to check out what the geological record tells us about the level of solar activity at the time when the Pyramid of the Sun was constructed. What I found is very interesting. In the centuries before and after the pyramid's construction, solar activity was at its highest level since the extinction of the Neanderthals!

The pyramid's construction date of ~33,800 calendar years BP falls in the midst of what geophysicists call the *Mono Lake geomagnetic excursion*, an event stretching over a period of three millennia from ~35,000 to 32,000 calendar years BP.¹⁹ Palaeomagnetic studies indicate that during the first thousand years of this event, i.e., 35,000-34,000 calendar years BP, geomagnetic intensity fell to five per cent of its present value, as it had done during the Laschamp reversal. During this time, the north geomagnetic pole swept to a West Pacific equatorial location. According to the Cariaco Basin radiocarbon record, radiocarbon levels and hence solar activity rose to high levels for several centuries during this early phase but subsequently fell sharply, allowing geomagnetic field intensity to spring back to a more normal level. So, more tolerable radiation levels then began to prevail.

Having managed to survive the preceding lethal event, these ice-age people likely became convinced of the need to begin building protective underground shelters. In fact, measurements that scientists have taken within the Ravne tunnels showed that the cosmic ray radiation intensity there is far lower than outside in the open air, as one might expect.

So, the tunnels would have offered any nearby ice-age residents a haven of safety. Considering that the complex of tunnels contains many kilometres of branching passages as well as many room-like chambers, I estimate that this subterranean labyrinth once could have held as many as 50,000 people.

Apparently these wise architects made the right decision, having taken advantage of the ensuing cosmic ray intensity lull to complete their pyramid, because the Cariaco Basin radiocarbon data indicate that, during the remaining two millennia of the Mono Lake excursion, cosmic ray exposure of the Earth rose on two occasions. Also, a number of cosmic ray intensity upswings occurred during the millennia that followed. These ice-agers would have been able to weather these events safely from the secure confines of their underground dwelling.

11) Ancient artefacts in large numbers have been retrieved from the underground tunnel labyrinth, some even inscribed with rune-like symbols.

Since these date from the time of the tunnel construction and before its Neolithic date of being sealed off, they testify to the authenticity of the Visoko tunnel site as having been created in prehistoric times. The artefacts are exhibited in the museum and archaeological repository of the Bosnian Pyramid of the Sun Foundation. A few are shown in this article.

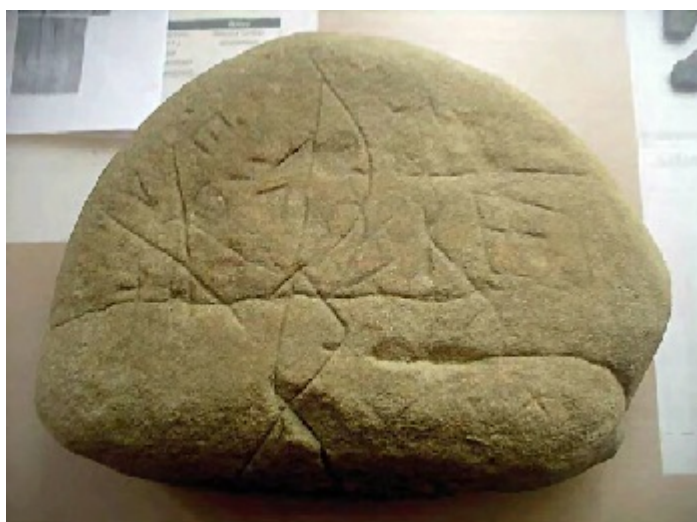


Image 12: Engraved ceramic found at Ravne (P. LaViolette © 2014)

The stone with runelike writing was found in Ravne in 2006 (see image 12).



Image 13: Artefact bearing a pigmented effigy. (Courtesy of T. Moon)

The stone bearing a pigmented effigy at one of its ends (see image 13) was found in association with 20 other stone artefacts buried under conglomerate.

According to the Foundation's Archaeological Project Manager, Timothy Moon, organic material in this same stratum yielded a radiocarbon date of 20,100 C-14 years BP, i.e., ~24,500 calendar years BP.



Image 14: Artefact displaying rust-colored inclusion. (P. LaViolette © 2014)

One particular artefact, which I find extremely interesting, is a piece of ceramic that contains what appears to be a rusted ferrous bar (see image 14). It was found in a valley immediately next to Vratnica. Future analysis will confirm if this inclusion is indeed rusted iron. If confirmed, it would push the Iron Age back to the mid-ice-age period, with the tantalising possibility that these pyramid-builders were employing metallic machinery in the

excavation of the tunnels and the construction of the pyramids. This again would challenge the limits of credibility of the standard archaeologist.



Image 15: Hieroglyphic writing on a ceramic rock found in the Ravne tunnels. (P. LaViolette © 2014)

Information about many of the archaeological findings at the Ravne site can be found in Timothy Moon's report.²⁰

12) The Ravne tunnel system somehow regenerates its air, always maintaining its oxygen level at 20 per cent without any need for ventilation. Measurements indicate very high levels of beneficial negative ions in the tunnel system's atmosphere, 200 times higher than in the outside country air!

One possibility is that the 28-kHz ultrasonic vibration which permeates the tunnels somehow induces sonic dissociation of water droplets, sonic cavitation effects perhaps splitting the water molecules into hydrogen and oxygen. Although this theory needs further testing, photomicrographs of water droplets in the tunnels show that something excites their surfaces and causes microscopic water clusters to seed off from them.

People say that they feel energised after spending time within the tunnels, and many claim to have had various health ailments cured. I heard some of these testimonies first hand.

13) Large man-made ceramic stones of amorphous shape have been found in various tunnel chambers, some weighing as much as 12 tonnes. Most are too large to have been transported into the tunnels and must have been fabricated somehow on the spot. One stone had its upper part poured separately, as is apparent from the presence of a crease around its periphery. Some of these stones are inscribed with hieroglyphic writing, presumably dating from the mid-ice-age period. Again, this shatters all concepts of human history. You can understand why the conventional archaeological community has frowned on this excavation project: the findings throw all of its carefully assembled theories out the window.

The purpose of the stones is not fully understood. Some theories suggest that they interact somehow with the energised environment to enhance the healing effects which reportedly occur within the tunnels. People sitting around these stones and meditating or chanting have reported having spiritual experiences. There is also the mystery of the luminous "orbs" that appear in some camera shots. If one looks carefully at image 8, two can be seen right of centre near the top. They are also seen moving around in some videos taken within the tunnels and even in videos taken at the top of the pyramid where the energy beam exits.

Countering the Sceptics

Much misleading information has been posted on the Internet and printed in mainstream archaeological periodicals, claiming that the Bosnian pyramids are really just natural geological formations, i.e., hills or mountains. As a result, before I came to Bosnia, I had conflicting reports about the Bosnian pyramids. Some people were saying that this is a phenomenal archaeological finding, and others, citing the opposing view of the mainstream archaeologists, were advising that it was not even worth my while to make the trip. Having now gone to Visoko and seen with my own eyes the wonders I've related above, I can say emphatically that there is definitely something fantastic being excavated there and that everyone who has any doubts should take the trip and see for themselves.

One should keep in mind that Bosnia was subject to immense glacial meltwater floods during the last ice age. If any pyramids or structures present there were built during the last ice age, as radiocarbon dating has established for

the Bosnian pyramids, they should not be expected to be easily visible with nicely exposed faces like the pyramids at Giza. Rather, we would expect them to be buried under layers of flood sediment. So, to the casual eye they might appear to be just part of the natural mountainous topography of the region. Only a discerning eye like that of Dr Osmanagich, noticing the regular pyramidal shape of the Pyramid of the Sun "mountain" and its precise orientation to the cardinal points, would be able to infer that something extraordinary lay buried below.

I have the utmost respect and admiration for Dr Osmanagich. For so long he has withstood the discouragement of his detractors and moved this excavation effort forward in spite of being criticised and shunned by mainstream archaeological organisations. He has also experienced great resistance from the local government which has passed laws preventing the excavation of everything that lies above the base of the pyramid, hence most of the pyramid structure.

I consider the excavations at Visoko to be one of the most important archaeological endeavours going on at this time on our planet. I believe that these findings will one day completely transform our ideas about prehistoric civilisation.

About the Author:

Dr Paul A. LaViolette received his BA in physics from Johns Hopkins University, his MBA from the University of Chicago and his PhD from Portland State University. He is the author of several books including: *Subquantum Kinetics*; *Galactic Superwaves and their Impact on the Earth*; *Earth Under Fire* (reviewed in NEXUS 5/02); *The Talk of the Galaxy* (8/02); *Genesis of the Cosmos* (11/05); *Decoding the Message of the Pulsars*; and *Secrets of Antigravity Propulsion*. He edited the 1981 book *A Systems View of Man* and has published numerous original papers in physics, astronomy, climatology, systems theory and psychology. His article "A Galactic Superwave Hazard Alert" appeared in NEXUS 8/02. His articles "Close Approach to Galactic Centre of Cloud G2 in July 2013" and "Possible Arrival of a Galactic Superwave Within Months" were published in NEXUS 20/03.

Dr LaViolette's lecture presented at the Hidden History Tour & Conference 2014 is at <http://vimeo.com/106060022>. A video of the final-day press conference is at <http://vimeo.com/105483113>.

Dr LaViolette is founder and president of The Starburst Foundation (see <http://starburstfound.org>). He can be emailed at starburstfound@aol.com.

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THE SUPERCLUSTER BARYCENTRIC NEURAL NETWORK AND IMMORTALITY

Radical Metamorphosis

by Christopher John Carmody and Cordell James Carmody
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In "Barycentric Properties" (Science News, NEXUS, June-July 2014, vol. 21, no. 4), a proposition was mounted to consider barycentres as in a way equivalent to human neurons, given that a barycentre also receives information, processes that information and then transmits or broadcasts that (barycentrically integrated gravitational) information. The barycentre of Galaxy IC 1101 (a star system composed of in the vicinity of 100 trillion stars) was employed to demonstrate that the amount of information flowing into and being processed and then broadcast by its (infinitely small) barycentric point is far beyond that of a human neuron.

Ascending the hierarchical/ pyramidal ladder of barycentres eventually leads to supercluster barycentres (SB).¹ It was asserted that at least some SBs are gravitationally bound together, forming an immense neural network (SBNN) of profound complexity and processing power— not artificial intelligence but, rather, inanimate intelligence—suggesting that we live in our world within a giant brain equivalent, leading to the allegory that "every star (or, more correctly, its barycentre) is a neuron".

The concept of an intelligent universe is not completely original, but employing a hierarchical/ pyramidal barycentric order as the neural machinery to explain this intelligence is without precedent.

Astronomical Darwinism and SBNN Logic

Provided that the Big Bubble Bath (BBB)² is a dynamic process (bubble universes imploding and exploding into existence continuously), it is arguable that there is only one necessary law from an astronomical perspective. From that foundational law, all other laws may be derivable.

The multiverse/megaverse is often equated to a Big Bubble Bath, wherein *each bubble is a universe*.

It is contended herein that, in the BBB, the "bubble universes" which can last the longest would begin to proliferate over time. It may be that it would take a very long time indeed and many generations, but eventually the bubble universes that disintegrate or implode the most quickly would become less numerous. The weaker bubble universes would die out and the longer-lasting universes would increase in percentage terms. From this process, a competition to maximise bubble universe longevity would evolve over time. If bubble universes could find a way to replicate or reproduce themselves, then this would also be part of longevity.

The many, many bubbles in the BBB would create a "probability pond" that gives birth to the most improbable thing: a universe that can discover a way to survive longer than other bubble universes.

The proposed foundational law is "survival of the fittest (universe)"— astronomical Darwinism.

Collapsing the Universal Wave Function

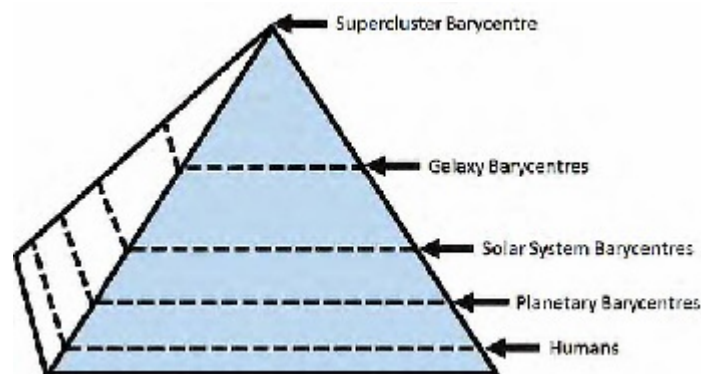
A bubble universe that could precipitate wave-function collapse in its superpositioning of states may conceivably maintain the greatest order over time and hence survive longer than universes that remain indeterminate. The idea of an embedded observer (intelligent life) inside a universe, collapsing the universal wave function³, had its genesis in the Copenhagen interpretation⁴ in the 1930s and over time developed into other interpretations, including the Von Neumann-Wigner interpretation.⁵ In his treatise *The Mathematical Foundations of Quantum Mathematics*, John von Neumann concluded that the entire physical universe is/may be subject to universal wave-function collapse via the observations of an intelligent observer.⁶

Several of the respected alternative interpretations to emerge over the decades also discussed universal wave-function collapse—some in the positive, some in the negative. It is also to be noted that the brilliant theoretical physicist John Archibald Wheeler proposed that consciousness plays a determinant role in crystallising the universe

into existence—his participatory anthropic principle.⁷

This article is merely building on the Von Neumann-Wigner interpretation, rather than arguing the correctness or otherwise of the various interpretations and theories.

By which method could the SBNN collapse the superposition/universal wave function of its own unobserved universe? Can the inanimate intelligence of the SBNN contemplate/calculate or think, perhaps even dream? (In a way, it is mistaken/erroneous that we need to "humanise" [i.e., by contemplating, calculating, thinking, dreaming] the SBNN's "intelligence" in order to try to understand it conceptually.) The human mind may not have a monopoly on higher reasoning and, in particular, on the use of logic as a means to solve problems.



Hierarchical/pyramidal neural order. The deeper the barycentre, the more powerful as a neuron. (Graphic by Cordell Carmody)

It could be argued that the SBNN itself might be able to collapse the superpositioning. However, for practical philosophical reasons it seems unlikely that inanimate intelligence could ever gain self-awareness: "it" cannot observe "it".⁸ A second polarity is required to gain perspective or context: a pair of opposites creates a relativity that a single point is denied. Inanimate and animate are two opposite ends of the spectrum. In a dialectic, intelligent life can be considered the far opposite of inanimate intelligence. We (as part of the universe) enable the universe to discover itself or become self-aware.

The SBNN that exists inside any gravitationally integrated (or at least in-part integrated or part gravitationally bound) bubble universe such as our own would seek to survive or to perpetuate itself, because the process of selection caused by the "survival of the fittest" law mandatorily requires it to do so over time. If it doesn't obey this law, then it has already been eliminated/ evaporated in the competition to proliferate. Everything is second best compared to immortality, or an immortality that holds the potentiality of endless evolution.

The DNA Molecule

Fundamentally, life has a mechanical process causing its animation: the DNA molecule. (In this article, "DNA" is used as a shorthand equivalent to genomic material.) The intelligence required to create such a mechanism would need to be prodigiously sophisticated. The combined integration of the many supercluster barycentres in terms of "processing power" is almost beyond the grasp of humankind. It is incorrect to state, as has been oft postulated, that the human brain is the most complex system (so far observed) in the universe. The SBNN is vastly more complex. Perhaps only an integrated, truly massive SBNN would be capable of inventing or creating such machinery as the DNA. (It is the author's view that no current scientific theory is yet to explain satisfactorily the origin of life, and that the above proposition is consistent with panspermia theory.⁹)

The contention herein is that the SBNN was able to calculate/logically infer that in order to perpetuate or maximise its longevity, it required the ingredient of an intelligent, living, embedded observer (with telescopes, microscopes, mathematics, chemistry, meta- and microphysics, philosophy, etc., etc.) inside its own particular universe. Such a task required not just the DNA molecule but also a habitable womb for it to be ensconced within.

The "Goldilocks enigma"¹⁰ has puzzled scientists for some decades. The enigma consists of the observation by scientists as to the truly wondrous perfection of the forces of nature which are apparently geared to suit life on Earth or even, indeed, our particular universe.

This article is suggesting that the SBNN plays a hands-on role in maintaining a suitable habitat for life on Earth.

However, a functional SBNN may require, *at the outset* (born out of the probability pond), certain propitious natural laws, such as the "gravitational square of the distance" law, to permit the SBNN to emerge from the chaos.

Alternatively, the SBNN may initially emerge via the "survival of the fittest" law, gain a minimum level of sophistication and then manufacture, or tune into, a more felicitous set of circumstances/ laws to elongate its own longevity.

(This paradox may be characterised as a "chicken or egg" type of argument and requires further analysis, but this article is concerned with another subject.)

Intelligent Life and Immortality

If the SBNN, using logic, calculated a means to perpetuate its longevity by inventing an intelligent, living, embedded observer, then it stands to reason that it would seek to maximise the utility of its creation— not just by creating/ finding a cornucopia(s) to protect and nourish its embryo(s), but also to minimise risk by planting DNA seeds in suitable, widely spread, different locations inside its starry domain. Furthermore, it may well seek to maximise longevity and hence the "empirical wisdom" of that intelligent observer as an entity in him/herself.

The more widely dispersed and more intelligent the embedded observer(s), the greater the collapse of superpositioning and the larger, stronger and longer the SBNN can grow/exist. It created life—and evolved life reciprocates by stabilising and facilitating its expansion. The SBNN may seek to turn the whole cosmos into a garden, to make the planet that orbits the furthestmost star burst into life with delicately perfumed flowers and crashing ocean waves—the SBNN dream.

On the one hand the SBNN must accord with survival of the fittest, but on the other it must treasure and facilitate its most valuable resource. The more intelligent and widely dispersed the observer(s), the greater the passport to stabilised radial (bubble universe) expansion (both inwards and outwards) for the SBNN. Space is vast, but (sufficiently) intelligent life may be very, very rare. The more intelligent the observer, the greater his/her powers of observation; for example, via the current explosion in orbiting and ground-based telescopes of increasing sensitivity and brand new accessing of different parts of the spectrum with gamma-ray, X-ray, low-and high-frequency, extreme-ultraviolet, infrared, microwave, submillimetre and radio telescopes.

Indeed, the so-called current "golden age" of astronomy may herald a new dawn for the SBNN.

Perhaps this very article, with its foundations in the neo-astronomy of the past 100 years, may facilitate the SBNN's discovering itself or becoming self-aware through our eyes/awareness/observations or even, at the extreme of extrapolation, becoming *alive*. (Potentially as a function of the number of people who read and understand this article, at a certain point the accumulated awareness of the comprehending readers might reach the threshold of an "act of measurement or observation", as in the Copenhagen interpretation and the double-slit experiment¹¹.) Life requires an information feedback loop, as does a neural network consciousness.

In a way, a universe without life does not exist. A rock does not exist unto itself. If it were possible to recycle, promote or facilitate the evolution of "intelligent life" and disperse it widely, then this would serve the twin purposes of the SBNN: expansion and robustness (longevity).



Every Barycentre is a neuron.

To say that the DNA molecule is a mechanism is only half the point. More importantly, it is a mechanism that can accumulate life's experience and transmit this information. In the medium of DNA, this information is transmitted

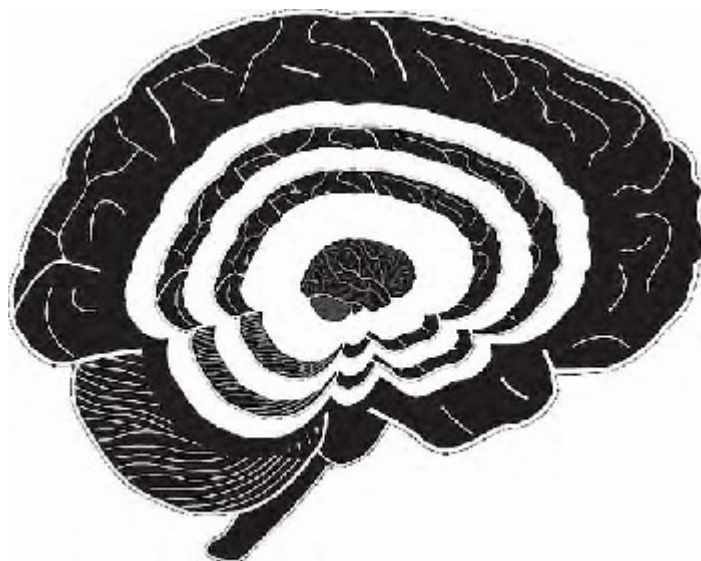
via a molecular passport. The phenomenon of "memory" proves that life's experiences are recordable, portable and therefore transmissible through space and time.

When one person has a conversation with another, information is transmitted via sound waves. The written word is another means of telegraphing information/ knowledge. Mathematics also makes information portable, as do digital photocopiers and television. Probably there are many ways of transferring/telegraphing deeply intimate and intricate types of information, some yet to be discovered most certainly. Of course, none of this type of information-sharing involves "life" conduction.

Inside the dialectic/spectrum between living intellect and inanimate intelligence lies the entity known as a "virus". In some cases, viruses can remain dormant, without nutrients or water, for a million years, and once availed a moment's opportunity exhibit great zest. Biochemistry is yet to decide whether viruses are alive or not alive.¹² A virus would appear to be an information-based mechanism.

The fact that "cloning" is not just a theory but a well and truly proven fact is powerful evidence that life, in essence, involves information transfer. At heart, "a" life is a mechanism enabled by information telegraphing. However, life is not merely a machine in disguise. Life is not an endless repetition of gears rotating or circuits self-enabling. Life holds the potentiality of immortality combined with the possibility of endless evolution. For the inanimate intelligence of the SBNN to be able to solve the mathematical problem of "perpetual motion" (DNA) as well as enable a self-improving or evolving capacity is evidence that there must be many, many stars in the sky.

The immortality or "radical metamorphosis" that this article is referring to is not merely the reanimation of any particular individual's lifetime of experience but, in addition, something much more profoundly ancient. The same single entity can *live on* through metamorphic change, despite dying innumerable times. Every single living human is the last link in an unbroken chain (his/her own chain) that extends back to the first moment of life, which according to the canon of this article may trace back to far before the Earth or even this particular bubble universe existed.



The intelligent universe: we live in our world within a giant brain equivalent. (Graphic by Cordell Carmody)

The Supercluster Barycentric Neural Network

The SBNN reigns over vast reaches of our universe. It is a truly massive, interconnected, neural network. A thought¹³/information composite anywhere within the network has access to the entire interconnection. In a way, it is similar to how a file— indeed, this digital file (this article)— can be transmitted to any destination across the Internet (but not necessarily at light speed).

Let us suppose an optimal scenario from the perspective of the SBNN. It has, let's say, created/found various island cornucopias spread as widely as possible throughout its bubble-universe jurisdiction so as to promote radial expansion via order created through superpositioning wave-function collapse. To effect this logical plan, the SBNN requires not just a living molecule but also observation/entanglement from an *intelligent*, embedded observer(s). The more intelligent its scion, the more powerful the telescopes and microscopes, for example.

The SBNN can release the DNA (Rene Descartes' mind-body problem: the nonmaterial can interact with the

material¹⁴), but *time* is an essential ingredient to allow the DNA molecule to evolve sufficiently to attain the requisite "intelligence" or to gain sufficient "empirical wisdom" to facilitate the necessary "wave-collapsing" observations. (To cook a cake, it is not sufficient to double the temperature to halve the cooking time: time itself is one of the essential ingredients.)

After waiting over endless time for the emergence of the "sufficiently intelligent" living embedded observer, the SBNN would in all probability, given the process of selection that has shaped its descent (as discussed above), seek to preserve and foster its most valuable scion. If it were technically possible, if the laws of physics in any way permitted the transmission/ telegraphing of this intelligence/ wisdom of an observer from one island cornucopia to another, then the SBNN would enable this transaction. We do not understand how this would be possible. The ancients knew nothing of how jet aircraft could enable relocation from the North Pole to the South Pole in a few hours, but their lack of understanding did not make it impossible.

If the SBNN with its massive, inanimate intelligence/processing power could execute the task, i.e., facilitate evolution, then it would, because this would suit its purposes. If it could, it would—and it *can*. The task referred to is to relocate a living intelligence upon demise from one location to another, revitalised and with its all precious intelligence/ empirical wisdom retained and reanimated: *radical metamorphosis*.

This would permit/effect the continued evolution of the intelligent "living" entity in its ascent through the species, increasing its observational powers through the further acquisition of knowledge/ wisdom. As the living observer gains gravitas, his/her wave-crashing force would increase exponentially. This accords most efficaciously with the underlying purpose of the SBNN.

The translocated entity might be unconscious (in a Freudian sense) of all that has gone before, which is not to say unaware—more a deep-water, living intelligence. Mankind may serve a purpose that he is gradually discovering. It is presumptuous and blind to think that everything, *everything*, is somehow automatic. Distant diamonds gleaming . . .

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Endnotes

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Simon Parkes on Aliens and the Illuminati

Throughout his life, as well as in past lives, one going back to the beginning of the human race, Simon Parkes has had interactions with extradimensional beings as well as with intelligence operatives and Illuminati members because of his ancient bloodline connections.

An interview with Simon Parkes

by Franky Ma
Neon Nettle, 2 October 2014
Website: <http://www.neonnettle.com>
Web page: <http://tinyurl.com/k2ah9nl>

When Labour Councillor Simon Parkes, of Whitby Town Council in England, made headlines in 2013, it certainly had people talking after he detailed his strange encounters, including having "sex" with an otherworldly entity and even having an alien upbringing. For this exclusive interview, Neon Nettle caught up with Mr Parkes to hear more about his story and his knowledge of the past and future of humanity. It's certainly an eye-opener.

Memories as a Three-Month-Old Baby

Neon Nettle (NN): Where would you say your story begins?

Simon Parkes (SP): It would begin before this lifetime. If people can understand that your life on the planet isn't your first or only time, in my case, I've been here before, reincarnated—something that western religions or western society finds very hard to understand, but religions of the East have had a handle on it for many thousands of years. So my story would start before this lifetime.

NN: How far back do you remember?

SP: Well, in this lifetime—I actually have a sort of photographic memory, which is quite handy—probably my earliest memory would be about the age of three months, something like that, a three-month-old baby. Prior to that I have snippets, and that's really all it is—snippets of past lives which go back quite a while.

NN: So what was your earliest memory, in this lifetime, of being three months old?

SP: It was of being in a cot (what the Americans would call a crib). I can remember bars to the right-hand side. It was a wooden thing, painted bright colours. I could move my head side to side, but I couldn't move my head up and down. I can just remember, looking through the cot bars from the right-hand side, these very strange legs; but because I couldn't lift my head or I couldn't lift my body because I was too little, I couldn't see any more than that, so just these odd legs. They looked odd because I'd never seen them before. The next thing I knew, these very strange hands were reaching into the cot to pick me up, and again they were very odd because they were green; they weren't the sort of pink skin colour.

Although I probably couldn't count as a three-month-old baby, I knew that there was one digit missing. This hand had four digits and not five, and lifted me up. I remember that my head fell backwards because I didn't have the strength to hold my head up. All I can remember at that point was the ceiling, and being lifted up and then being tilted forward. My head rolled forward and my chin hit my chest because, again, I had no control of my body—you know, a three-month-old baby.

And then I was looking straight into the eyes of what researchers call a Mantid, or a Mantis, and I looked straight into its eyes. I suppose I would say it telepathically communicated with me, and then the feeling that I can best describe is falling down a well backwards. So if you imagine you're standing on the edge of a well and then you jolt yourself so you fall backwards down the well, that was the falling sensation I felt. Then I just passed into blackness and I don't really remember anything else.



Labour Councillor Simon Parkes, of Whitby Town Council, made headlines in June 2013 after he detailed some of his encounters with the Mantids, a seven-foot-tall extradimensional race, one of whom is shown in the sketch. (Image: © ITV)

Recollections of the Garden of Eden

NN: That's fascinating. What are your earliest memories of earlier lives?

SP: A combination, really, of memories which I have regained myself and then information that's been passed to me from others—certainly about what researchers would refer to as Sumeria, Babylonia, the Syrian Empire, very much connected with that period of time, going right back to what the Bible would call the Garden of Eden.

So, in my mind I can trace back, with great gaps in between, to times through history that would go back as far as that.

NN: What are your memories of the Garden of Eden?

SP: Very clear, very clear. Surprisingly, I know that a lot of researchers might find this quite difficult but there are elements in the Bible which are quite true, quite accurate, in the sense of the overall structure and overall framework they portray at that time. It's broadly correct, to my recollection, though the inferences or expressions placed on that are for religious purposes or controlling purposes. So, I certainly have very, very clear recollection of a physically and mentally superior race who had made certain areas of Mesopotamia and other parts of the world very habitable, very lush and very supportive of life. There were very small geographical pockets and within these they were based, they had their centres, and it was difficult to move outside of them because it was very arid land. That's a reasonably clear recollection of that period.

NN: What's your clearest memory of those times? Is there one that stands out?

SP: Yes. It has to be exactly what the Bible portrayed: the understanding of knowledge and the perception that an alien race is actually not your creator. They can't take credit for your creation. That was a complete fallacy: the understanding of sovereign self and the ability to decide to take yourself off and carve a future for yourself without the great protectors that have been taken as your gods.

So, my clearest memory would literally be what the Bible refers to as the exodus out of the Garden of Eden. The difference I would make is that in the Bible there's just one male and one female, but my memory is that's absolute nonsense. There were many hundreds of humans at that time working for these creatures, and so it wasn't an expulsion of one male and one female: it was an expulsion of all of those who were at that particular site.

NN: From a first-person point of view within that, that's almost like an intellectual memory...

SP: Well, it is a first-person point of view but I'm very detached when I recount it, simply because the soul that inhabited that particular body now inhabits *this* body. It's a very real happening, but there's a huge amount of time that separates today from that time. When talking to people—I'm not particularly an emotional person in the sense that I'm not a hothead, so I don't get excited or burst into tears—I'm quite logical and I put things across just the way they are.

Experiences in Childhood

NN: Now, we want to know what your childhood was like aside from the alien interaction.

SP: I was an only child. My father left the family when I suppose I was about one year old. My mother never remarried. She never had another boyfriend and she made it quite clear to me that her job was to bring me up. That's all she was there to do. So, we had an incredibly close relationship and she treated me like an adult, not like a child.

I actually loved being a single child. I mean, I didn't have any brothers or sisters. So, I was an only child and it was excellent because of the relationship I had with my mother. She was more like a...well, this is going to sound awful, but she was more like a servant to me than a mother and I had a really fantastic childhood. In older life I look back and think: "I wonder what it would've been like to have a brother or a sister?" At the time I thought it was great. I enjoyed it.

NN: Did you ever confide in your mother about your experiences?

SP: I think I always had what I think many people would refer to as an "invisible friend", but the big time was when I had an experience in 1971. I was just leaving one school for another school, and I believe I had been away for two days but I'd probably in Earth time only been away for about 10 minutes. I recounted to her part of what had happened, and her reaction was: "I want you to draw everything down". And she gave me loads of paper, crayons and pens and said to me: "Draw it all down and I will show it to my friends."

So, she was absolutely okay. We didn't have long discussions. I don't want people to think that we had this long *tete-a-tete*. It was a subject that we didn't mention, and it was understood by the time I was that age that it was a subject we didn't talk about. But when the subject might come up, she was incredibly supportive.

Family Ties with Intelligence Agencies

NN: You have deep family ties with the government, MI5, MI6 and the Illuminati. Can you just quickly give us the history behind this?

SP: Bloodline—that's simply it. From the Illuminati's point of view, it's bloodline. From the secret services' point of view: my mother worked for MI5; my grandfather worked for MI6, although when he worked for them they weren't called MI6—they changed the name during his time of office there. Because of my alien interactions I have always been on the radar of BSS, the British Security Service which is called MI5, and the SIS, the Secret Intelligence Service which is colloquially called MI6. These two organisations have a handle on me, although I do want to make clear that when my mother worked for MI5 she was really working for the National Security Agency of America, but because she was a British subject she was managed by Britain—although ultimately all the work she was doing was being shared with America.

NN: You've said that your mother was killed.

SP: Yes, in 1979. Over the years, what she was reading in these documents made her a very bitter and sour woman because she felt the government was lying to the people. She'd had a number of arguments with her "handlers", for want of a better word, and they made it very clear that she was part of this system now. She wasn't separate; she was part of the controlling system. So, was she going to attack herself? Well, she turned to drink; she became an alcoholic.

NN: How old were you when she became an alcoholic?

SP: I was probably about 12 or 13, and it got to the point when I was about 17 or 18 where she went to her handlers and said: "Do you know what? I've had enough of this. I'm not going to do it any more. And you know you promised me my old job back." Which they did: they promised her that she could go back to her day job at any time. She had an office job and although she had been away for a number of years they just arranged for her to go back. I remember her desk was still there; her typewriter was still there. They had just literally mothballed her office where she worked in a patent office.

NN: How do you know this? Did she tell you?

SP: I saw it. She worked only half a mile away from me, so often I would go over to the office if we were going shopping or we were going to the cinema. I would go to her office and meet her outside. You know, we'd get the bus and go down into Brighton to the Duke of York's, which was the cinema then, and watch a film. They had just literally mothballed her office for a number of years. So, they gave her her job back but within two weeks she was dead.

I've always said that I understand why they did it. They had someone with a huge amount of information in her head and they could not allow this person to be running free. That does not mean that I agree with what they did. Of course I don't, but I understand from their operational side why they did it.

I think I was around about 18 years of age—no father, no brother and sister; just on my own in a rented flat— but because there were certain people who looked after me, I got an interview with Andrew Bowden, who was a Member of Parliament for Brighton Kemptown, to ensure that the flat was changed into my name. He got a Member of Parliament to organise all that, and then I decided that I was too upset, it was all too much: I was going to leave Brighton, go 50 miles north and go and find a job in London, which I did.

Two days or a day before I was due to leave, an envelope was pushed through my letterbox and in it was £2,000 in banknotes and a little [typewritten] note that said "Don't look back, Dick Whittington", which is a play on Dick Whittington goes to London to start a new life. So they gave what I call my blood money. They gave me £2,000—that was a lot of money in 1979—to get a good start in London.

NN: What about MI6, whom your grandfather worked for?

SP: Well, they are more interesting because they are a little bit more shadowy. People don't really understand. MI6 is from an office base. Generally the British Ambassador must always be above all politics and all espionage, but everybody else underneath him, except the Assistant Ambassador, can be, for want of a better word, spies.

So my grandfather was a British Consul, which allowed him to travel the world on a diplomatic passport—except only three countries wouldn't let Britain in at the time and he would do trade missions. He met Joseph Stalin; he met JFK. He went around the world. He wasn't what we call a field operator; he wasn't a James Bond. He was the guy who sat in an armchair and said: "You know what we need to do this." And if it was to meet, say, the Shah of Iran, whom he met, then he would go and meet the Shah of Iran. So he was the guy who sat in one of the London clubs in the smoking room doing the deals, taking the reports, stuff like that, so he was much more in the background.

Links with the Illuminati

NN: What about your connections to the Illuminati?

SP: They're interesting. I come from a magical background, which means sometimes people are a little bit disconcerted when they're around me. If they're psychic, they'll see stuff which for some people, fortunately not many, freaks them out.

But that's just the way it is. There are phenomena that occur around me, but that's my bloodline and that's the way it's been for thousands of years. The Illuminati are interested in bloodline; they're interested in the soul. They've made one approach to get me to join. I didn't like the deal, so I didn't go for it.

NN: What didn't you like about the deal?

SP: Well, you know, you don't get something for nothing. When somebody makes you an offer, they usually want something in return—and maybe the price was too high. So I very politely and very kindly refused that particular offer.

Then recently, about a week ago or two weeks ago when I was in Marlborough, if I remember how long ago that was—I get confused with times on this planet— another arm of the Illuminati made an approach and opened a dialogue with me. That's the way it is; that's the way it needs to be.

These are the people who want to have a discussion; they want to talk about things that the vast majority of people can't get their head around— although that's what I'm trying to do, trying to engage with a wider community, to make them aware of just what is taking place behind the curtain.

NN: Most people probably wouldn't understand why you would decline an invitation from the Illuminati...

SP: Hmm. That's the problem, isn't it. As a planet, were so involved with money—that's what we're told is right—so we chase money above all things. Thankfully, I'm not on my own. There's a number of us who don't think that money is the be all and end all. There are other issues which are, frankly, more important. I'm talking about spiritual issues, and therefore I won't compromise humanity in any shape or form for a deal. That's just not the way it's going to be.

NN: Did they mention healthcare or pension?

SP: Healthcare or pension? Oh God, no; you're talking millions! Don't bother about a pension or healthcare. Talk about ultimate power: that's what the Illuminati offer! You could take someone who empties wheelie bins, but if the bloodline is there they'll take that person under their wing. Emotionally that person may not be strong, but they'll make them financially strong or they'll do deals with them.

My grandfather came from a family of five or six. It was a very poor family; his father was a piano tuner but the bloodline was there. My grandfather was a reptilian, absolutely. So, the bloodline was there and they took a man

who was born in 1895, from a family of five or six, but he ended up as a British Consul. He was awarded the OBE, the MBE, the CBE. He was a Senior Mason and was offered a knighthood to make him Sir James Marsland, but he turned down the knighthood for exactly the same reasons that I turned down the Illuminati's offer. He said to me: "If I had accepted the knighthood, and it would've been a companion knight, then I would have been beholden to them and they would have asked me to do things that I then wouldn't be able to refuse." That's why he turned down the knighthood.

If you're a man or a woman of principle, you will look at what you're offered and you will attempt to do a deal. And if the deal doesn't look good for you, if you're weak-willed and not committed to the human race, then you'll accept it because you want power and money and glory. But if you actually care about the creatures on this planet and you understand that life is just transient, then you say: "No, you know what? I'm not going to go down that road. Come back and give me a better deal."

Extradimensional Entities

NN: So, you've spoken about the reptilians. What do you actually think their agenda is?

SP: Which branch of the reptilians do you refer to? Well, first, let's talk about the Draconis, which are the ones that I have a relationship with.

There are obviously more than one group in the reptiles. In a few words, the reptilian agenda is to keep the status quo and not have any change.

NN: We often talk about aliens or extraterrestrials. Do you have a preferred term for the beings you've encountered?

SP: Yes. The ones that I've encountered are not extraterrestrial. They're *extradimensional* entities. These are creatures that can only get here through portals. There's a guy called Charles Hall who had a job as a weatherman at Area 51 and he talks about the Tall Whites. Those are genuine ETs. It takes them somewhere between 18 and 20 years to get here, so they get here in real time. But the creatures that I'm referring to, the extradimensional entities, you could snap your fingers and they're here because they travel through portals.

NN: What are your experiences of visiting the extraterrestrial spaceship?

SP: Which one? I'm just trying to access my memory bank to decide which one is appropriate for you and the readers. It's got to be a Mantid spacecraft because that's where I have two associations with reptilian Mantids. The whole craft is totally uncluttered. You don't see furniture. There are no carpets and there's certainly no wallpaper. There are no lights in the ceiling; it's just literally—and I use the word deliberately—beautiful, silver. I wouldn't say there are no corners; you do see some corners, but I would say 99.9 per cent there are no sharp angles. There are chairs, but they appear as if they've been grown out of the craft; they are part of the craft. It's not like you go to a famous furniture shop and buy what you want and plonk it down. These things appear to have morphed out of the craft. There's no dust. The lighting seems to be equal in every part of the room. Everything is very factual, very organised. Nothing is untidy.

The control panels don't look anything like what we see even on, say, *Star Trek*; they don't look anything like that. The control panels require not just physical touch but are linked to these creatures' neural net. In other words, any creature who has the right to command either in a spacecraft or a facility, that creature's neural net and DNA will be encoded into the facility's computer.

Every craft, every facility, has a sentient computer. Call it "AI", but it's much more than that. So, the creature connects with the computer and the computer then directly connects with the different elements of the facility. For instance, if you're in a spacecraft and you want to do a very sharp turn, you don't actually press a button or a long sequence of buttons: you just *think*. That is picked up by the interface computer and the craft then turns. It works by DNA because only DNA can travel faster than the speed of light. It's quite complicated. That's why when Roswell's spaceship crashed in 1947, the pilot of the craft, their head...well, fibre-optic wires were actually connected into the brain because you have to make neural connections and you've got to think at that speed.

You can't pilot a craft at anything like at the speed of light and think "Oh, I'll just press this button now" because you're dead; you'll probably hit an asteroid. You have to be able to link straight into the neural net so that you can plan and think. It's quite interesting. It's quite exciting!

Bloodline Tracking

NN: Why do you think they chose you? Obviously it's because of the bloodline, I'm assuming is what you would say.

SP: They didn't choose me. It's just the way it is, and I've always made it clear that I'm not important. I'm just an ordinary person on this planet, going about everyday stuff. There are doctors and nurses who do a much better job

than I do, and school teachers. There's the guy who empties the wheelie bin who probably does far more good on a day-to-day basis than I do.

I never asked these creatures to come to me. You are right: it is a bloodline thing, and all sides know about me—and I rather think they know quite a lot about me and they knew a lot about me many years ago.

So, if you were one of these naturalists you might have put a tracking device on a wolf and then when the wolf has cubs you put the tracking device on one of those cubs, and then it grows up and has a mate and has cubs, and after about 100 years, if you were to run that program, you'd have followed that family line of wolves right through—and that's exactly what is going on.

It's not just me. There are many, many, like me who are followed through on the bloodline and interacted with, and so it is purely because I can trace a history back to what they consider to be the start of humanity.

Going Public with the Truth

NN: Would you say that these encounters have had a positive influence on your life? Are you grateful for them?

SP: That is an interesting question. I will tell you what I am grateful for: to know the truth. I am incredibly grateful to know that what I was taught in school and what we hear on the television and on the radio and what we hear on the street is just nonsense. So, I am really pleased to know that humanity is not the only living creature in the multiverse and that there is a whole wide range of creatures. What makes me mildly annoyed is that our government and many governments know the truth and are deliberately withholding the truth from the people. So I feel that a curtain has been lifted up for me from that element. On the other element, I'm on my own spiritual journey, working through my own stuff, for want of a better word, and that is part and parcel of my course through my personal history.

NN: In going public with your experiences, what do you hope to achieve?

SP: Oh, it's been achieved already. The whole object of it was to come to the people and say: "Open your eyes, look behind the curtain because you are being lied to on the grandest scale that you would ever conceive, and this is the reality of what's going on." The object was that people, I hoped, would go and do their own research, do it for themselves, and then maybe start their own journey of enlightenment however that may be. It doesn't matter. Everyone's different; everyone's valued as an individual. They would all start their own individual course and then they would make their own decision. So I saw myself as a spark to set others off on their own course.

NN: How have those around you, family and friends, etc., reacted?

SP: Everything has been fine, and I know that the controlled media are completely dumbfounded by this. For years and years the established media have pushed out a line, and then they rather have a problem with me. From the general media's point of view, in the early days they attempted to show me as somebody who was making it all up—and then the carpet got pulled from under their feet when I was invited to the secret radar base.



The Solid State Phased Array (SSPAR) at RAF Fylingdales, UK. (Image: wikipedia.org)

That was the turning point, when the military invited me for a three-hour tour of one of the most secure military bases in Great Britain: RAF Fylingdales. The established media just couldn't handle it because here was a guy who said: "Do you know what? My grandfather worked for MI6, my mother worked for MI5, I see aliens, etc., etc." And

yet he gets a three-hour tour of one of the most sensitive bases.

Overnight, the media's attitude changed incredibly— so much so that when Pope Francis declared in his inaugural speech as the new Pope that he would baptise aliens, who did the BBC phone at half past six in the morning for the first comment? It was me. So that's what happened.

Helping Other Experiencers

NN: Have you ever actually discussed this with someone who has had similar experiences?

SP: Yes, of course. Under my parttime roles, I get people coming from all over the world to consult with me. These are people who have got the money to jump on a plane and fly here—people who have had demonic possession, djinn possession or others; people who have been tortured by satanic cults or some arm of the Illuminati; people who have multiple personalities. I work with them to absorb those personalities to remove the demonic possessions they have. If they can't afford to come and see me then I do it by Skype, but it takes a lot longer and I still would need to see them at some point.

NN: So what's the going rate for demonic possession? How much do you charge?

SP: See, here you go again. You're putting everything down to money, aren't you? But that's okay; that's the world we live in. And this is my answer: I put right somebody who was sent to me by the Rothschild family, okay, because they didn't have anybody else who could put this person right. So, to somebody like that there would be a very big charge because they can afford to pay it.

NN: But if someone didn't have any money, then you wouldn't charge essentially?

SP: Exactly right, because the point is that those that have money are subsidising those that don't. I call it an ethical process.

Fear of Ridicule

NN: Do you think a lot of people keep quiet about extraterrestrial encounters through fear of ridicule?

SP: Of course. You know the answer to that. They're terrified. They think that if they come out and say that, they'll be made a laughing stock. They'll lose their friends, and the whole life they lead on this planet will be totally different. You know, very few humans are capable of making that move and that's why it's got to be done on a global scale, so that people have the comfort of understanding that it's not only an individual case but it'll be a corporate case.

NN: Why do you think people fear the concept of extraterrestrial or interdimensional life?

SP: They don't. Let's get that straight. They don't. What they fear is ridicule from the system because from the day they went to kindergarten they had a set educational route which taught them that they are the most intelligent thing not just on the planet but in the universe, that God gave life to them and there is nobody else. And through jokes, humour and the system but particularly because the media do not give any credence to alien creatures, they are conditioned in a passive way not to be open to the potentiality of another living creature. So the reality is that they don't want to come out and say stuff or investigate it because they fear being made a fool of.

Implications for Humanity

NN: What do you think the implications are for the future of the human race?

SP: It's down to the human race. They alone will make the choice. What has been done for them at the moment is a levelling of the playing field. Still, at the moment it's not an even playing field. I have always fought for humans by saying: "You cannot expect a young race to make decisions when they don't have the full information to hand." Therefore, what's happening at the moment is that the playing field is being levelled and there will come a point in the next two years where humanity will be adjudged, rightly or wrongly, to have gained sufficient knowledge to make a decision as to what it wants to do.

On 21st [December 2012, humanity was] ready for a consciousness leap. That's why on 21st [December 2012], with stuff about ascension—in that sense of the word, but I'll use it because that's what most people understand—there was a fundamental shift. Most people were disappointed because they expected fireworks or the Earth to move or lightning to come down. They always want physical things, humans. Think back to Moses: "God! Send me a sign!" Well, you know what? We're not talking about signs and the physical; we're talking about *energetic* signs.

Fortunately there was a critical mass reached, and humanity is on an unstoppable move towards the next step. The question is: how much pain will there be in these next few steps? That is purely and simply down to the consciousness of humanity. In December 2012, there was a critical mass of humans, which was two million plus.

NN: But whether it's a lot of pain or a little pain, we re definitely going to get there?

SP: I honestly can't give you that because there is more than one timeline. Both the negative force and the positive force have been fighting to put Earth on different timelines. At the moment, Earth is on a broadly beneficial timeline for humanity. There have been several attempts to hijack and push us onto another route. That's not possible now, so were fixed on a route which is beneficial to humanity and that's why there are elements of what is called a "shadow government" which would like to eliminate half of the human population or three quarters of the human population because they can no longer change the timeline. So, their view is: "Okay, if we can't change the timeline, we'll make ourselves masters of what we've got." But this is an ongoing battle.

Editor's Note:

This is an edited version of Franky Ma's interview with Simon Parkes for the Neon Nettle website. To read the complete interview, go to <http://tinyurl.com/k2ah9nl>
For more information and interviews, visit Simon Parkes's website: <http://www.simonparkes.org>



FOUNDER OF SKEPTIC MAGAZINE WITNESSES A PARANORMAL EVENT

by Joe Martino © November 2014

Michael Shermer is a well-respected man amongst his community. He is the founding publisher of *Skeptic* magazine, a monthly columnist for *Scientific American*, a regular contributor to Time.com, and Presidential Fellow at Chapman University [in Orange, California]. He is very sceptical and scientific by nature, and until now had never had a supernatural or paranormal experience.

A Shift in Perspective

In his 2006 TED talk, we see a very sceptical and almost condescending Shermer. Although much of the time he pokes fun at "odd" theories, he makes some good points about how we choose to see and hear things and form beliefs as a result.

On an observational level it is still interesting to hear someone, who clearly has a bias towards certain subjects, call out others who have bias in an attempt to explain why we believe weird things. For example, Shermer pokes fun at things like UFOs and aliens, stating: "It's very likely they are not real." He does this in a manner that some sceptics do where they use words to divert from the evidence and call upon the more ridiculous claims in an attempt to debunk the entire phenomenon. Perhaps he hasn't seen the abundant evidence, including declassified government documents, that exists on the subject.

Either way, the point here is simply that from a standpoint of discovery, sticking true to the scientific method is important in all cases when we're looking for external validation of an idea. Leaving bias or methodology to prove a point by finding the most obscene examples of a theory out of the equation is the best bet. Being sceptical is okay, but being a sceptic in true form does not mean being closed minded; it simply means being open to questioning and exploring new ideas without simply believing it.

From his talk, I can see why so many sceptics are not humble in their beliefs and often feel superior to others who don't share the same beliefs. It almost seems to be "sceptic culture".

But given his latest experience, perhaps Shermer will have an entirely different view towards some of the claims that others have made during his career.

Shermer's Supernatural Experience

Here's Michael Shermer's story as he wrote in an article entitled "Infrequencies", which was also published in *Scientific American* [posted on 16 September 2014]:

"The event took place on June 25, 2014. On that day I married Jennifer Graf, from Koln, Germany. She had been raised by her mom; her grandfather, Walter, was the closest father figure she had growing up, but he died when she was 16. In shipping her belongings to my home before the wedding, most of the boxes were damaged and several precious heirlooms lost, including her grandfathers binoculars. His 1978 Philips 070 transistor radio arrived safely, so I set out to bring it back to life after decades of muteness. I put in new batteries and opened it up to see if there were any loose connections to solder. I even tried percussive maintenance, said to work on such devices—smacking it sharply against a hard surface. Silence. We gave up and put it at the back of a desk drawer in our bedroom.

"Three months later, after affixing the necessary signatures to our marriage license at the Beverly Hills courthouse, we returned home, and in the presence of my family said our vows and exchanged rings. Being 9,000 kilometers from family, friends and home, Jennifer was feeling amiss and lonely. She wished her grandfather were there to give her away. She whispered that she wanted to say something to me alone, so we excused ourselves to the back

of the house where we could hear music playing in the bedroom. We don't have a music system there, so we searched for laptops and iPhones and even opened the back door to check if the neighbors were playing music. We followed the sound to the printer on the desk, wondering—absurdly—if this combined printer/scanner/fax machine also included a radio. Nope.

"At that moment Jennifer shot me a look I haven't seen since the supernatural thriller *The Exorcist* startled audiences. 'That can't be what I think it is, can it?' she said. She opened the desk drawer and pulled out her grandfather's transistor radio, out of which a romantic love song wafted. We sat in stunned silence for minutes. 'My grandfather is here with us,' Jennifer said, tearfully. 'I'm not alone.'

"Shortly thereafter we returned to our guests with the radio playing as I recounted the backstory. My daughter, Devin, who came out of her bedroom just before the ceremony began, added, 'I heard the music coming from your room just as you were about to start.' The odd thing is that we were there getting ready just minutes before that time, *sans* music.

"Later that night we fell asleep to the sound of classical music emanating from Walter's radio. Fittingly, it stopped working the next day and has remained silent ever since."

How We Can Relate To Others

Given Michael can say that he now has first-hand experience of something supernatural that he cannot explain or simply set aside with some "logical" explanation, it's quite possible that he can now better relate to people who truly, deeply and completely believe something unexplainable that they have experienced.

Even in his latest 2010 TED talk, Michael still felt that believing in alien abductions was absurd, but what about those who claim to have experienced it? What would they say to that? Is it fair to say that all who have claimed it are simply crazy?

It's sometimes very easy for us to discredit, set aside or be sceptical of experiences that we didn't have, yet others had. It's almost become "cool" and "intelligent" simply to come up with a logical explanation, even when it doesn't truly explain what happened.

Nonetheless, it's okay to be sceptical. We simply need to keep our ego in check at the same time and keep an open mind to the fact that putting a logical explanation on something doesn't prove it false or incorrect. When we do this, we simply close off a lot of possibility versus truly exploring it.

Interestingly, Shermer ended his piece with something very important:

"The emotional interpretations of such anomalous events grant them significance regardless of their causal account. And if we are to take seriously the scientific credo to keep an open mind and remain agnostic when the evidence is indecisive or the riddle unsolved, we should not shut the doors of perception when they may be opened to us to marvel in the mysterious."

However, it came with some backlash from a commenter:

"Michael, I was embarrassed to read your concluding paragraph. What are we to keep an open mind about? That Jennifer's dead grandfather maybe fixed the radio? Did he even know how to fix radios? Wouldn't there be an easier way for the dead to communicate with the living? It would be mildly interesting to have an electronics expert determine exactly what is wrong with the radio. - Mark"

Embarrassed—because suddenly one of the biggest sceptics in the world is open to the possibility that there is more to life than just what we can measure?

(Source: *Collective-Evolution.com*, 8 November 2014, <http://tinyurl.com/lxpnvbb>.)

MONROE PLANNED TO REVEAL THAT JFK SAW CRASHED UFOs

by Michael E. Salla PhD © 2014

New evidence has been released supporting the authenticity of a leaked CIA document allegedly of wiretaps of Marilyn Monroe and her friends shortly before her suspicious death on 5 August 1962.

The wiretap document revealed that Monroe was planning to give a press conference about what President Kennedy had told her of a visit to an undisclosed Air Force facility where he saw the debris of a crashed UFO. The Monroe wiretap document was first leaked in 1992 to a UFO researcher and was made public in 1994. It has not been confirmed by the CIA to be genuine, and it remains open to dispute.

The new evidence that was revealed shows that the leaked document conforms closely to a standard classified Information Report form used by the CIA in 1963. Either someone broke the law by forging or using a standard CIA Information Report form for classified reports at the time of Monroe's death, or the Monroe wiretap document is indeed a classified report about a wiretap of Monroe and her friends.

This is what the alleged CIA wiretap document, dated 3 August 1962, had to say about Monroe's knowledge of Kennedy and UFOs:

"1. ... Rothberg indicated in so many words that she [Monroe] had secrets to tell, no doubt arising from her trysts [sic] with the President and the Attorney General. One such secret' mentions the visit by the President at a secret air base for the purpose of inspecting things from outer space.

"2. Subject repeatedly called the Attorney General and complained about the way she was being ignored by the President and his brother.

"3. Subject threatened to hold a press conference and would tell all."

The discoverer of the CIA intelligence report is Lee Nicholson from The OutPost Forum. In his 4 April 2014 forum post, he described what he found after visiting the CIA's Electronic Reading Room:

"During the process of researching this article I spent several hours at the CIA's electronic reading room looking at documents from the 1960s, in an attempt to find examples of similar typeface to that seen in our questioned document.

"I discovered a CIA Information Report dated 18th March 1963 with the subject heading 'Projected Soviet Space Launchings' which was declassified on 16th July 2011. This authentic CIA information report is an almost perfect match in style and presentation for the leaked 'Marilyn document.'"



Comparison of Monroe wiretap document with declassified CIA Information Report. (Source: The OutPost Forum, 4 April 2014)

Nicholson went on to describe new facts emerging from a comparison between the declassified CIA document and the Monroe wiretap document:

"In fact a close comparison gleans some important new facts. Firstly, we can now see that both documents use the exact same form letter or template information report. Presumably the author would have a stack of these blank' forms which would be placed into a typewriter to add the relevant information before classification and distribution. We can also see that both documents contain the same secondary typeface, which is in fact Courier type commonly used on IBM typewriters in the 1960s."

Nicholson then described a series of parallels between the declassified 1963 Information Report and the leaked Monroe wiretap document. His conclusion is that they closely match, suggesting that the Monroe document is genuine.

The implications of the Monroe wiretap document being genuine are astounding. The document reveals that only one day before her death, Monroe was planning a press conference that would reveal what President Kennedy had

confidentially told her about UFOs. The fact that the CIA was monitoring her and wiretapping her phone calls directly implicates the CIA in her suspicious death and the cover-up of information concerning UFOs.

(Source: *Exopolitics.org*, 15 April 2014, <http://tinyurl.com/o7k56v5>)

BOOKS

Reviewed by Ruth Parnell

THE 15-OUNCE POUND:

Big Pharma's Plan to Patent Pot

by Joseph R. Pietri

Trine Day, Waltherville, OR, USA, 2014

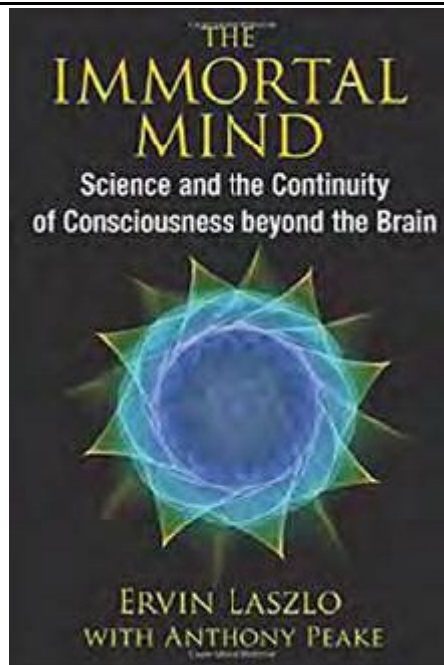
ISBN 978-1-937584-14-6 (174pp pb)

Available: www.TrineDay.com

The cannabis plant has been valued by many cultures for millennia, both for its spiritual qualities and its practical uses. In *The 15-Ounce Pound*, Joseph Pietri, a drug war veteran and now supplier of medicinal cannabis, spills the beans on how the US Drug Enforcement Administration's tightening of the American cannabis growing scene led to the rise of the Dutch production and distribution system by the early 1990s and the patenting of a few hybrid varieties with regulation of the THC content in crops being developed for the prescription-only market.

Pietri recounts colourful tales about questionable characters involved in the "scam" for the last few decades and explains how some industry pioneers have been ripped off by dodgy, hand-picked individuals that formed a corporate alliance.

The proposed legalisation of marijuana will not just impose taxes and regulations; it will destroy grassroots breeding of special genetic strains that also hold great promise as medicines. We shouldn't have to accept chemically concocted copies of what Mother Nature has given us for free, says Pietri, and it's high time that the people had a say in the future of legal marijuana.



THE IMMORTAL MIND

by Ervin Laszlo with Anthony Peake

Inner Traditions, VT, USA, 2014

ISBN 978-1-62055-303-9 (169pp tpb)

Available: www.InnerTraditions.com

The "big question" of whether consciousness survives death is given a different treatment by systems scientist Ervin

Laszlo (21/04, 16/04) and researcher Anthony Peake (14/02). The authors examine neardeath experiences, apparitions, afterdeath communication, mediumship, instrumental transcommunication, and past-life and "reincarnation-type" experiences. The testimonies they've selected, both recent and archival, are compelling cases for consciousness persisting beyond the brain.

Laszlo and Peake draw on ancient wisdom and cutting-edge findings in quantum physics that support the reality of the Akasha, that deep dimension where consciousness is the basic element of the cosmos. In this fundamental reality, the cosmic matrix harbours and governs all the fields and forces, constants, entities and events that appear in space-time, yet is a holographic totality without space and time—the unitary logos. Indeed, brain and consciousness are on separate planes of reality, and the authors point to clinical studies showing that people whose brain is clinically dead can have conscious experiences. They also suggest that many instances of "reincarnation" are sourced from the Akasha and are brought about by the coincidence of, say, a newborn's bodily features with those of a deceased person.

In *The Immortal Mind*, the authors herald a new era of conscious immortality, marking a new phase in the history of human life on Earth.

DENTAL HERBALISM:

Natural Therapies for the Mouth
by Leslie M. Alexander, PhD, RH(AHG), and
Linda A. Straub-Bruce, BS Ed, RDH
Healing Arts Press, VT, USA, 2014
ISBN 978-1-62055-195-0 (453pp tpb)
Available: www.HealingArtsPress.com

The mouth is a microcosm of the body, so it makes sense to look after it for the sake of our overall health as well. Former research scientist and medical herbalist Dr Leslie Alexander and dental hygienist Linda Straub-Bruce teamed up to produce this comprehensive guidebook, useful for the layperson and the professional. The good news is that there's an abundance of herbal treatments that can be used in conjunction with cutting-edge developments in dentistry.

The authors establish the mouth in the context of inflammation and its effects on health. They focus on anatomy and ways to monitor oral health. They consider tooth development in babies and children as well as tooth decay, gum disease and other issues that affect millions of people. They highlight nearly 50 conditions and 30 symptoms that affect the mouth, and provide tables to help identify these problems.

The authors present herbal strategies and a list of herbs and their uses and indications; many of these are household staples. They show how to make and use teas, oils, tinctures and poultices to treat dental conditions. They also advise on dietary improvements that can aid oral health. Plus, they discuss some of the emotive issues of our time, including the use of fluoride and amalgam. Their natural approach accesses the best of both worlds.



GOOD NEWS FOR PEOPLE WITH BAD NEWS

by Nyema Hermiston, RN, ND,
Adv Dip Hom
Karuna Publishing, Australia, 2014
ISBN 978-0-9752473-6-5 (326pp tpb)
Avail: www.karunapublishing.com.au

Why doesn't the medical orthodoxy recognise the benefits of treatments not deemed to fit its consensus belief system? This is a question posed by Nyema Hermiston in the introduction to her book, with foreword by Dr Ian Gawler, himself a long-term cancer survivor.

For *Good News for People with Bad News*, Hermiston assembled interviews with over 40 people, including parents of children, who refused to accept bleak medical outlooks and adopted a variety of treatments that led to recoveries.

Some of the therapies they chose have been known for nearly a century but have remained obscure; some are ancient modalities such as Ayurvedic medicine. Others involve special dietary and nutritional regimens.

Among the many recovery stories are ones concerning childhood epilepsy, fibromyalgia, autistic spectrum disorder, cancers, liver cirrhosis, allergies, Lyme disease, rheumatoid arthritis, diabetes, heart disease, chronic pain, Crohn's, Parkinson's and Alzheimer's diseases, multiple sclerosis, antibiotic resistance and more. Hermiston applauds those with the courage to try options that carry no serious medical risks and decries those who discredit alternative medicine without even investigating it.

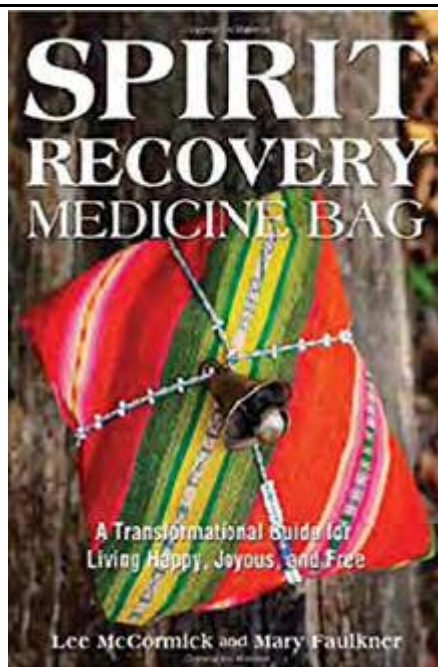
OUR HOLOGRAPHIC WORLD

by Antony Milne
Empiricus Books, UK, 2014
ISBN 978-1-85756-827-1 (329pp pb)
Available: www.januspublishing.co.uk

The idea that the universe is a hologram may offer a way of understanding paranormal experiences such as missing time, prophetic dreams and out-of-context events. Antony Milne, a prolific popular science author (see 19/04, 7/05), suggests that just because conventional western science steers clear of trying to explain events that happen out of time and space, this doesn't mean that these events can't be explained. We should at least try.

Milne has compiled case studies covering a gamut of experiences, including his own. There are radio and TV broadcasts heard and seen before an event took place or years afterwards; *deja vu* glimpses of the future; rapid life-reviews; near-death and reincarnation experiences; premonitions and hunches; telepathic people and pets; dreams; feedback loops; baffling coincidences; spooky synchronicities; and more.

With reference also to the latest findings in quantum physics and research into parallel universes, Milne advances his holographic world theory to try to explain cases of people suddenly finding themselves transported to historic scenes, encountering "body doubles" and experiencing phantom cars, trains and aircraft. Are these phantoms real, conjured out of "spare" energy hidden in the cosmos? Milne observes that life often seems "edited" in some way, leading him to conclude that something beyond time is responsible for time and space slippages into a modified alternative world. A fascinating take on our shifting reality.



SPIRIT RECOVERY MEDICINE BAG

by Lee McCormick and
Mary Faulkner

Health Communications, USA, 2014
ISBN 978-0-7573-1794-1 (279pp pb)

Available: www.hcibooks.com

What's stopping us living our lives more authentically and joyfully? It could be our beliefs, attitudes or circumstances that block our connection with Spirit. As you'll discover, if you've shut down that link, you can retrieve your spirit. This is an essential part of the message of *Spirit Recovery Medicine Bag*, written by Lee McCormick, a facilitator of healing and recovery journeys, and Mary Faulkner, a spiritual adviser and trauma specialist. Co-founders of the Integrative Life Center in Nashville, both are steeped in wisdom from indigenous traditions—McCormick specialising in Toltec, and Faulkner in Native American and Vedic.

In the first part, McCormick recounts his path from addiction to transformation and his new mission to help others find their Inner Healer and their true self and purpose.

In the second part, Faulkner offers tools and exercises for awakening consciousness and tapping into the innate creativity of imagination and dreaming. These exercises involve awakening the subconscious mind, meditating with nature, relaxing into labyrinth rhythms, listening with your heart, following your inner road map, and more. The authors encourage us to see that we can make a conscious effort to open up to the flow of life.

BEHOLD A PALE FARCE

by Bill Blunden and Violet Cheung
Trine Day, Waltherville, OR, USA, 2014

ISBN 978-1-937584-80-1 (441pp pb)

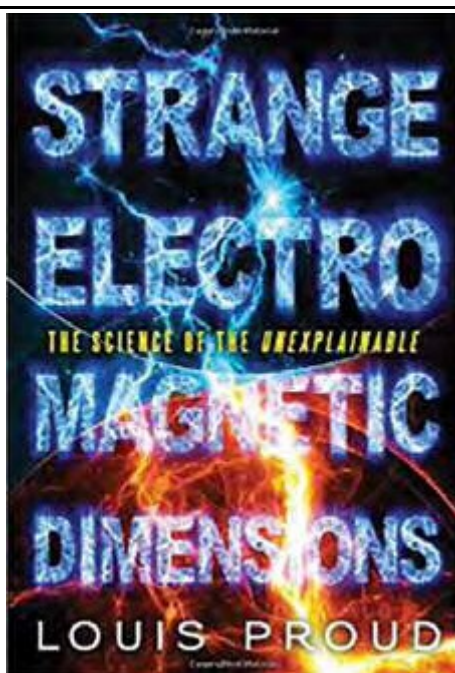
Available: www.TrineDay.com

Borrowing from the Book of Revelation, the authors of *Behold A Pale Farce* explain how the US elite and the corporate media promote the concept of cyberwar in order to create mass anxiety in the populace. But there is no evidence for cyberwar, and the doomsday scenarios being bandied about are farcical. The authors are Bill Blunden,

an independent investigator specialising in information security, and Violet Cheung, a psychology professor at the University of San Francisco and an expert in intergroup conflict.

The point about promoting this "cyber-insecurity", where everything from the power grid to the banking system is presumed to be under threat, is to lead the public mind towards accepting military solutions—but against whom? The authors have analysed the potential threat from China-led cyber-attacks and concluded that China doesn't have cyberwar capabilities. On the other hand, there are the ever-present menaces of cyber-crime and cyberespionage as well as the creation and deployment of malware within an ever-expanding clandestine market.

What we're seeing in all this cyberwar hyperbole is an example of "threat inflation" as a pretext for yet more surveillance of the public and the removal of even more civil liberties. We're up against the Deep State, and the people need to create sustained action to try to counteract it, say the authors in their well-researched, heavily referenced work.



STRANGE ELECTROMAGNETIC DIMENSIONS

by Louis Proud

New Page Books, NJ, USA, 2015

ISBN 978-1-60163-327-9 (279pp tpb)

Available: www.NewPageBooks.com

In order to get a grip on "strange electromagnetic dimensions", it helps if you understand how the electromagnetic (EM) web works. Anomalous phenomena researcher Louis Proud (see 17/03, 17/02) first explains the electromagnetic spectrum and how life responds to natural and artificial EM energy.

Unfortunately, today's smart meters, smart phones and Wi-Fi are having very real deleterious effects on numerous people, many of whom are labelled as "electrohypersensitive". All this was predicted decades ago, and Proud refers to researchers who've warned about adverse health effects from radio frequency and microwave radiation, among other forms, as the threat today becomes ever more pervasive and urgent.

Interestingly, most phenomena considered to be paranormal—e.g., psychokinesis, poltergeist activity and UFOs—also exhibit EM manifestations. In the case of lightning strike, many survivors are known to develop psychic powers or a philanthropic resolve as a result of their experiences; indeed, they've often been the victims of electric shock beforehand, even in childhood.

Proud investigates magnetite in the brain, which aids navigation in most life forms, and the role of quantum entanglement in psi abilities. In his intriguing book, he proposes that a "fifth force" is behind psi phenomena.



THE SECRET SPACE AGE
 by Olav Phillips
 Adventures Unlimited Press, USA, 2015
 ISBN 978-1-939149-42-8 (188pp tpb)
 Avail: adventuresunlimitedpress.com

The UK telecast on 20 June 1977 of the documentary *Alternative Three* caused widespread panic: was it a hoax (it was originally scheduled for April Fool's Day), or was it true? The film presented three scenarios aimed at surviving a planetary catastrophe—maybe from an asteroid impact or the start of an ice age. According to Olav Phillips, all three scenarios have been implemented already.

Alternative One, an atmospheric nuclear detonation implemented under Project *Argus* in 1958, had to be corrected by geoengineering projects using chemtrails to stabilise the weather with "global dimming".

Alternative Two was conceived in the 1950s and put into motion with the setting up of "doomsday bunkers" that would support life—but would never house large populations; they would be left to their own devices.

Alternative Three, the colonisation of the Moon and Mars, has been underway for decades, and Phillips refers to controversial British hacker Gary McKinnon who in 2001-02 found evidence in military and NASA computers for a *Solar Warden* program involving a secret space fleet and bases operating beyond the Earth.

To back up his argument, Phillips reports on Agenda 21 plans to cull the planet's populace, missing scientists, machinery artefacts on the Moon and Mars, operational space weapons, Nazi flying saucers, and war being waged by the Americans, Russians and maybe Chinese against an off-planet Nazi civilisation. With lots of photos and diagrams, *The Secret Space Age* focuses on key conspiracies of our times.

DR. MARY'S MONKEY
 by Edward T. Haslam
 Trine Day, Waltherville, OR, USA, 2014
 updated edition (first published 2007)
 ISBN 978-1-937584-59-7 (401pp hc)
 Available: www.TrineDay.com

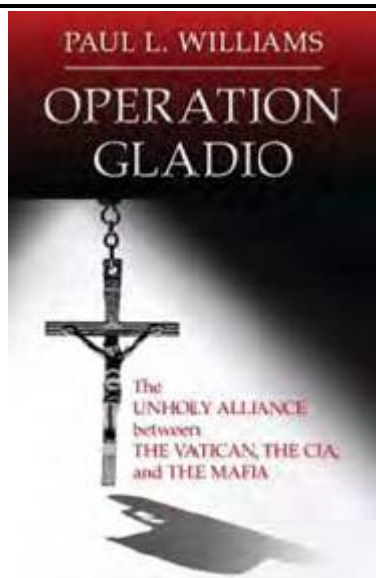
In the seven years since publication of *Dr. Mary's Monkey* (see 16/05), Ed Haslam has received more feedback, photographs and documents from people who know something about the death of New Orleans medical professor and cancer researcher Dr Mary Sherman in July 1964. So much so that he was urged by his publisher to prepare a new foreword and afterword for an updated edition—in hardcover, in the hope that libraries will keep this book for years to come.

To recap, Haslam has a different take on events surrounding the JFK assassination; it includes creation of a cancer virus to be used against Cuba's Fidel Castro, a monkey virus-contaminated polio vaccine that triggered a cancer

epidemic, secret CIA-Mafia operations, a Lee Harvey Oswald connection, and Dr Sherman's death in a linear particle accelerator "accident", although she was found dead in her apartment.

In this expanded edition, Haslam reproduces gruesome photos from the crime scene, a memo from FBI head J. Edgar Hoover in which he ordered his agents not to investigate Sherman's murder, and statements from neighbours who noticed regular visits by Oswald to Sherman's apartment complex. He also relates attempts to obtain a redacted name from Sherman's address book from the FBI and Department of Justice.

Haslam's cold-case reconstruction still has ramifications 50 years after these mysterious events took place.



OPERATION GLADIO

by Paul L. Williams

Prometheus Books, Amherst, NY, 2015

ISBN 978-1-61614-974-1 (338pp pb)

Avail: www.prometheusbooks.com

It's no secret that following World War II, "stay-behind units" were established in a number of European and Latin American countries to stop communism in its tracks. But moves to create these networks were actually put in motion during the war, and mechanisms were set up by the US Office of Strategic Services (OSS) together with American and Sicilian Mafia groups to fund them.

According to Dr Paul Williams, the OSS hit upon the idea to create heroin production and distribution systems to sell addictive drugs first to the subcultures of New York City— a money-making enterprise that would keep the revenue flowing. However, when their Nazi SS morphine stocks ran out, they had to find another source. In 1947, the newly formed Central Intelligence Agency (CIA) superseded the OSS and continued cooperating with the Mafia, assisted by the Vatican Bank as money launderer. The CIA, the Mafia and the Vatican had a cause in common: thwarting Communist and left-wing take-overs at all costs. The moniker *Gladio* (sword) was given to these military stay-behind units in Italy and in other countries.

The result was the rise of a Vatican-endorsed masonic society, terrorist false-flag operations, the overthrow of governments, embezzlement, the establishment of new drug networks, murders, papal assassinations, cover-ups and a host of other horrors. Even today, not much has changed. Dr Williams's expose of the "unholy alliance" makes for gripping reading.

DEATH ON MARS

by John E. Brandenburg, PhD

Adventures Unlimited Press, USA, 2015

ISBN 978-1-939149-38-1 (357pp tpb)

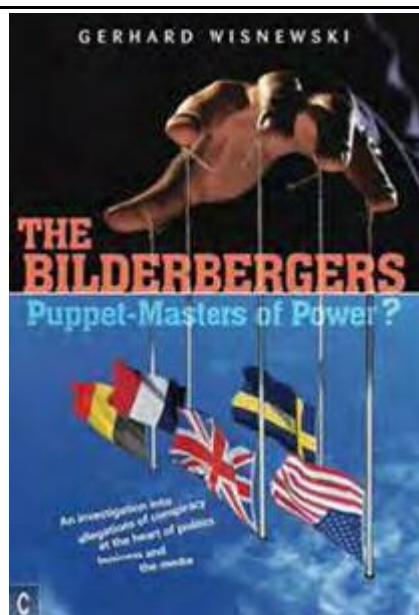
Avail: adventuresunlimitedpress.com

In *Death on Mars*, plasma physicist Dr John Brandenburg continues his thesis on what destroyed the Martian biosphere and possibly a high-tech civilisation that once existed on the Red Planet (see review of *Life and Death on*

Mars in 18/03). He includes more data on nuclear isotopes and the signatures which suggest that disturbances and super-abundances of both krypton and xenon led to a large fission event—a catastrophic nuclear explosion—on Mars.

Much of Brandenburg's new book covers his work history on classified projects at places like Sandia Labs as well as his keen interest in Mars and then in the Face, whose images were found and enhanced by NASA engineers Vincent DiPietro and Greg Molenaar by the mid-1980s. Soon he joined fellow scientists with the Independent Mars Investigation Team (IMIT) organised by Richard Hoagland, and over time became more of a space scientist, although his research in plasma physics and nuclear energy made him well placed to develop his theory. Yet he certainly had his detractors.

As various probes orbited Mars in ensuing years, more images could be analysed, and Brandenburg continued his study of Martian geology and physics and lobbied for more focused exploration of features and artefacts on the planet's surface (he includes numerous photos here). Having also worked with NASA on space transportation, he is qualified to speculate on future bases on Mars and its moon Phobos which will "forever change human destiny".



THE BILDERBERGERS
by Gerhard Wisnewski
Clairview Books, W. Sussex, UK, 2014
(first pub. as *Drahtzieher der Macht*,
Knaur Taschenbuch, Munich, 2010)
ISBN 978-1-905570-75-1 (277pp tpb)
Available: www.clairviewbooks.com

Not quite convinced that a secretive group hellbent on world domination actually exists, Gerhard Wisnewski set about discovering all that he could about the Bilderberg Group. It wasn't long before he became convinced of its reality and its grim presence as a mover and shaker in global events. He was surprised to find that the group was founded (in 1954) by a Polish Jesuit with a background in the secret services, particularly the British: Joseph H. Retinger, who in the post-World War II period laid the groundwork for the establishment of the European Union and the euro.

Wisnewski, a political scientist, documentary-maker and author (see *One Small Step?: The Great Moon Hoax...*, 16/04), explores the intriguing role of the Jesuits over the centuries and quotes from their most famous document (a hoax, some suggest) *Secret Instructions* or *Monita secreta*, a Machiavellian prescription for increasing the power, influence and finances of the Jesuit Order. As it happens, many Bilderbergers were educated by Jesuit priests.

While space doesn't permit his delving into every Bilderberg participant, Wisnewski concentrates on key figures, David Rockefeller and Henry Kissinger the most prominent for decades, and touches on the works of these and other players in war, industry, politics and society.

"Puppetmasters of Power" is an apt subtitle for this book. While some of the content has been updated for this translation, the message still holds true for what we can learn about how power is exercised behind the scenes without the consent of the people.

HOW THEY MURDERED PRINCESS DIANA

by John Morgan

Shining Bright Publishing, Aust, 2014

ISBN 978-0-9923216-1-1 (800pp tpb)

Avail: Amazon.co.uk; Amazon.com

No researcher other than Australian John Morgan has shed more light on the demise of Diana, Princess of Wales, and her partner Dodi Fayed than he's done in his book series. His new publication, *How They Murdered Princess Diana*, is a compilation of key sections of his *Diana Inquest* series in a single, though weighty, volume (also see NEXUS 20/06, 20/01,16/06, 15/04, and website <http://tinyurl.com/n2yz3kl>).

The death of the Princess of Wales in 1997 was one of the most shocking events of the late 20th century, but even more shocking, Morgan maintains, is the full knowledge of the circumstances of her death, orchestrated by the British Secret Intelligence Service under the direction of senior members of the Royal Family. Indeed, plans for her ousting were in play from 1992 and were revved up in subsequent crises in the ensuing years, he says, including over the Princess's campaign to eradicate landmines.

Morgan believes that the Princess was murdered in the ambulance following the staged car accident in Paris. Despite three investigations and over 17 years later, no definitive official responses have been made public. In Morgan's estimation, there are still several "elephants in the room"—significant matters that were covered up in the inquiries.

DVDs

Compiled by Duncan Roads

2014 NEXUS CONFERENCE
Produced by E&E Productions, SA, Australia,
www.eande.va.com.au
15 DVDs (60-90mins each)
Available: NEXUS Magazine, PO Box 30, Mapleton, Qld 4560, Australia
tel +61 (0)7 5442 9280
Website: www.nexusmagazine.com

In July 2014, hundreds gathered for our Conference on the Sunshine Coast of Queensland, Australia, for three days and two nights of inspiring talks and presentations.

1. How to Live without Disease, with Don Chisholm. Don covers issues such as weight loss without dieting and reducing ageing and disease as they relate to gut flora and fauna for health.

2. From Egypt to Tesla, with Drs James (J.J.) & Desiree Hurtak (USA). The Hurtaks delve into the mysteries of ancient Egypt, consciousness, free energy and the future.

3. Ancient Alien Influence in Africa + the Ubuntu Party, with Michael Tellinger (South Africa).

Michael is a specialist on ancient mysteries of Africa and shares his knowledge and plans for a better society with Ubuntu contributionism.

4. Climate Change and the Electric Universe, with Wal Thornhill. Wal explores the electric Sun, revealing a bigger picture of the forces at work affecting our ever-changing climate.

5. Aliens, Humans and The Future, with Simon Parkes (UK). Simon, via Skype, takes us on a journey with his experiences of human-ET history and politics.

6. Cancer Paradigms, with Greg Fredericks. Greg assesses and describes cancer therapies and their effectiveness, plus new cutting-edge findings of a universal cancer marker found in all 200 types of cancer.

7. Remote Viewing, ETs and the Future, with Joe McMoneagle (USA).

Joe shares experiences from his long career in remote viewing, including observing beings on Mars during ancient times.

8. The Moon, Cover-ups and Secret Technologies, with John Lear (USA). Duncan Roads interviews John Lear via Skype on John's latest interest, the Moon, as well as on aliens and conspiracies.

9. Exposing the Global Puppet-Masters, with Karen Hudes (USA).

A former legal expert at the World Bank, turned whistleblower, Karen reveals startling new information about "hidden powers".

10. The PowerTube Healing Device, with Martin Frischknecht (EU). Martin relates health successes with his invention, the PowerTube, a revolutionary and inspired device with amazing benefits for health.

11. Switching on Your Health and Healing Genes with Nutrigenomics, with Sherrill Sellman (USA). The science of nutrigenomics is revolutionising the practice of preventive medicine, and Sherrill shares strategies for helping us hit the bullseye for health and healing.

12. Current and Future Threats to Our Wealth, with Karen Mutton. Karen's presentation updates us on bail-ins and pension confiscations, "global currency reset" plans, derivatives dangers and cyber-threats to our banking system.

13. Australian Revelations, with Gary Opit. Gary examines the known and unknown natural and human history of the Great South Land.

14. No Goodbyes: Messages from the Heaven World, with Barry Eaton. Barry explores deeper and deeper into the whole afterlife experience and how it affects our lives in each incarnation.

15. Summary Highlights of the Conference on a 90-minute DVD, including approximately five minutes of each presentation.

MUSIC

Reviewed by Richard Giles



BUDDHA-BAR BEACH: IBIZA
by Buddha-Bar and Radio FG
Wagram Music, France, 2014 (45mins)

Distributors:

France—Wagram Music, www.buddhabar.com;

Australia— www.phoenixdistribution.com.au

The *Buddha-Bar* series is now world famous. This compilation is a Buddha-Bar collaboration with French Radio FG and the Parisian label George V Records, and features a selection of tracks that evoke the feelings of summer and warm sand. These are hypnotic compositions with easy arrangements and addictive, silky sounds. Call over friends, select some laid-back tracks and enjoy these languorous tones from the Buddha-Barscape. Artists include Ben DJ, Beat Les, Cayetano, Sean Finn and Ricardo Munoz, and many more.

DRUM CARGO: RHYTHMS OF EARTH
by David & Steve Gordon

Sequoia Records, USA, 2010 (55mins)

Distributors:

USA—Sequoia Records, www.sequoiarecords.com;

Australia— www.phoenixdistribution.com.au

Award-winning drum masters David and Steve Gordon have blended shamanic rhythms and world percussion with Native American flute for this CD. These deeply tribal rhythms from every corner of the planet have an energising power. Joined by fellow percussionists Kim Atkinson and Bobby Cochran, the Gordons have created one of the more pleasing albums of deep drum music. More than just rhythms, these songs speak to the inner self and beckon you to live in connection with Earth and your path.

EXIT

by Luka Lesson

Luka Lesson Music, 2014 (32mins)

Distributors: Australia— www.lukalesson.com.au/

Luka Lesson is an Australian spoken-word and hip-hop artist of Greek heritage. He's had years of experience with writing, workshops and writers' festivals. Luka has performed at the Nuyorican Poets Cafe in New York City, the National Gallery of Victoria, the Trinity International Hip-Hop Festival and with Greece's hip-hop group Active Member. Here is a spoken-word, conscious hip-hop, slam-poetry, world-fusion presentation with titles like "Babylon", "Labyrinth", "Celebrate the Storm", "For Our Women" and "Eloquent Abyss". A fast-paced spoken musical experience.

GYMNOSPHERE: SONG OF THE ROSE

by Jordan De La Sierra

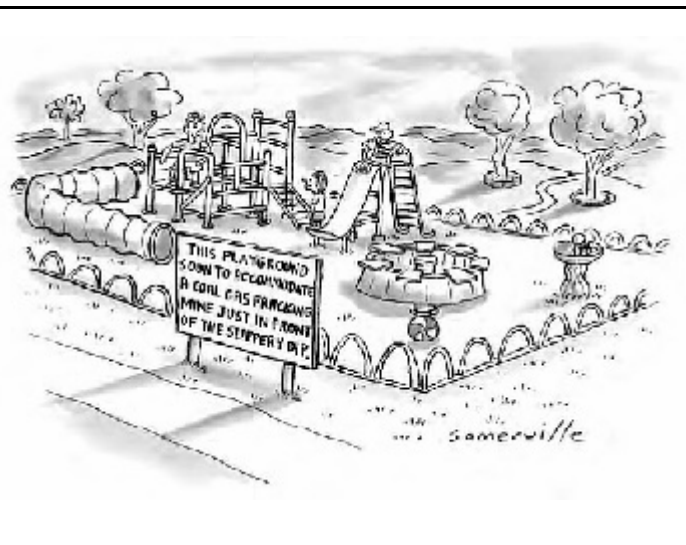
Numero Group, 2014 (2CDs, 104 mins) Distributor:

USA—Numero Group, www.numerogroup.com

This CD set is a digitally remastered reissue of a 1976 recording by the classically trained composer Jordan De La Sierra, one of the first New Age musicians. The set includes a reprint of a 20-page booklet of De La Sierra's musings on the original project as well as his visual artwork. It consists of four separate pieces: "Music for Gymnastics", "Temple of Aesthetic Action", "Music for Devotional Pastimes", and "Sphere of Sublime Dances"; each runs over 20 minutes. It's a remarkable reissue of a pioneering album that had been lost for decades. Mesmerising.

Cartoons

by Phil Somerville





Somerville

NEXUS

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STATEMENT OF PURPOSE

NEXUS recognises that humanity is undergoing a massive transformation. With this in mind, NEXUS seeks to provide 'hard-to-get' information so as to assist people through these changes. NEXUS is not linked to any religious, philosophical or political ideology or organisation.

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